FEDERAL OPERATING PERMIT

A FEDERAL OPERATING PERMIT IS HEREBY ISSUED TO
Eastman Chemical Company

AUTHORIZING THE OPERATION OF
Eastman Chemical Texas Operations
C1 - Oxo Aldehydes
All Other Basic Organic Chemical Manufacturing

LOCATED AT
Harrison County, Texas
Latitude 32° 26' 15" Longitude 94° 41' 37"
Regulated Entity Number: RN100219815

This permit is issued in accordance with and subject to the Texas Clean Air Act (TCAA), Chapter 382 of the Texas Health and Safety Code and Title 30 Texas Administrative Code Chapter 122 (30 TAC Chapter 122), Federal Operating Permits. Under 30 TAC Chapter 122, this permit constitutes the permit holder's authority to operate the site and emission units listed in this permit. Operations of the site and emission units listed in this permit are subject to all additional rules or amended rules and orders of the Commission pursuant to the TCAA.

This permit does not relieve the permit holder from the responsibility of obtaining New Source Review authorization for new, modified, or existing facilities in accordance with 30 TAC Chapter 116, Control of Air Pollution by Permits for New Construction or Modification.

The site and emission units authorized by this permit shall be operated in accordance with 30 TAC Chapter 122, the general terms and conditions, special terms and conditions, and attachments contained herein.

This permit shall expire five years from the date of issuance. The renewal requirements specified in 30 TAC § 122.241 must be satisfied in order to renew the authorization to operate the site and emission units.

Permit No: O1982 Issuance Date: _____

_____
For the Commission

Table of Contents

General Terms and Conditions

The permit holder shall comply with all terms and conditions contained in 30 TAC § 122.143 (General Terms and Conditions), 30 TAC § 122.144 (Recordkeeping Terms and Conditions), 30 TAC § 122.145 (Reporting Terms and Conditions), and 30 TAC § 122.146 (Compliance Certification Terms and Conditions).

In accordance with 30 TAC § 122.144(1), records of required monitoring data and support information required by this permit, or any applicable requirement codified in this permit, are required to be maintained for a period of five years from the date of the monitoring report, sample, or application unless a longer data retention period is specified in an applicable requirement. The five year record retention period supersedes any less stringent retention requirement that may be specified in a condition of a permit identified in the New Source Review Authorization attachment.

If the permit holder chooses to demonstrate that this permit is no longer required, a written request to void this permit shall be submitted to the Texas Commission on Environmental Quality (TCEQ) by the Responsible Official in accordance with 30 TAC § 122.161(e). The permit holder shall comply with the permit's requirements, including compliance certification and deviation reporting, until notified by the TCEQ that this permit is voided.

The permit holder shall comply with 30 TAC Chapter 116 by obtaining a New Source Review authorization prior to new construction or modification of emission units located in the area covered by this permit.

All reports required by this permit must include in the submittal a cover letter which identifies the following information: company name, TCEQ regulated entity number, air account number (if assigned), site name, area name (if applicable), and Air Permits Division permit number(s).

Special Terms and Conditions:

Emission Limitations and Standards, Monitoring and Testing, and Recordkeeping and Reporting

1. Permit holder shall comply with the following requirements:

    A. Emission units (including groups and processes) in the Applicable Requirements Summary attachment shall meet the limitations, standards, equipment specifications, monitoring, recordkeeping, reporting, testing, and other requirements listed in the Applicable Requirements Summary attachment to assure compliance with the permit.

    B. The textual description in the column titled "Textual Description" in the Applicable Requirements Summary attachment is not enforceable and is not deemed as a substitute for the actual regulatory language. The Textual Description is provided for information purposes only.

    C. A citation listed on the Applicable Requirements Summary attachment, which has a notation [G] listed before it, shall include the referenced section and subsection for all commission rules, or paragraphs for all federal and state regulations and all subordinate paragraphs, subparagraphs and clauses, subclauses, and items contained within the referenced citation as applicable requirements.

    D. When a grouped citation, notated with a [G] in the Applicable Requirements Summary, contains multiple compliance options, the permit holder must keep records of when each compliance option was used.

    E. Emission units subject to 40 CFR Part 63, Subparts A, F, G, and H as identified in the attached Applicable Requirements Summary table are subject to 30 TAC Chapter 113,

Subchapter C, § 113.100, § 113.110, § 113.120, and § 113.130, respectively, which incorporates the 40 CFR Part 63 Subpart by reference.

2. The permit holder shall comply with the following sections of 30 TAC Chapter 101 (General Air Quality Rules):

   A. Title 30 TAC § 101.1 (relating to Definitions), insofar as the terms defined in this section are used to define the terms used in other applicable requirements

   B. Title 30 TAC § 101.3 (relating to Circumvention)

   C. Title 30 TAC § 101.8 (relating to Sampling), if such action has been requested by the TCEQ

   D. Title 30 TAC § 101.9 (relating to Sampling Ports), if such action has been requested by the TCEQ

   E. Title 30 TAC § 101.10 (relating to Emissions Inventory Requirements)

   F. Title 30 TAC § 101.201 (relating to Emission Event Reporting and Recordkeeping Requirements)

   G. Title 30 TAC § 101.211 (relating to Scheduled Maintenance, Start-up, and Shutdown Reporting and Recordkeeping Requirements)

   H. Title 30 TAC § 101.221 (relating to Operational Requirements)

   I. Title 30 TAC § 101.222 (relating to Demonstrations)

   J. Title 30 TAC § 101.223 (relating to Actions to Reduce Excessive Emissions)

3. Permit holder shall comply with the following requirements of 30 TAC Chapter 111:

   A. Visible emissions from stationary vents with a flow rate of less than 100,000 actual cubic feet per minute that are not listed in the Applicable Requirements Summary attachment for 30 TAC Chapter 111, Subchapter A, Division 1, shall not exceed 20% opacity averaged over a six-minute period. The permit holder shall comply with the following requirements for stationary vents at the site subject to this standard:

      (i) Title 30 TAC § 111.111(a)(1)(B) (relating to Requirements for Specified Sources)

      (ii) Title 30 TAC § 111.111(a)(1)(E)

      (iii) Title 30 TAC § 111.111(a)(1)(F)(i), (ii), (iii), or (iv)

      (iv) For emission units with vent emissions subject to 30 TAC § 111.111(a)(1)(B), complying with 30 TAC § 111.111(a)(1)(F)(ii), (iii), or (iv), and capable of producing visible emissions from, but not limited to, particulate matter, acid gases and NO_x, the permit holder shall also comply with the following periodic monitoring requirements for the purpose of annual compliance certification under 30 TAC § 122.146. These periodic monitoring requirements do not apply to vents that are not capable of producing visible emissions such as vents that emit only colorless VOCs; vents from non-fuming liquids; vents that provide passive ventilation, such as plumbing vents; or vent emissions from any other source that does not obstruct the transmission of light. Vents, as specified in the “Applicable

Requirements Summary" attachment, that are subject to the emission limitation of 30 TAC § 111.111(a)(1)(B) are not subject to the following periodic monitoring requirements:

(1) An observation of stationary vents from emission units in operation shall be conducted at least once during each calendar quarter unless the emission unit is not operating for the entire quarter.

(2) For stationary vents from a combustion source, if an alternative to the normally fired fuel is fired for a period greater than or equal to 24 consecutive hours, the permit holder shall conduct an observation of the stationary vent for each such period to determine if visible emissions are present. If such period is greater than 3 months, observations shall be conducted once during each quarter. Supplementing the normally fired fuel with natural gas or fuel gas to increase the net heating value to the minimum required value does not constitute creation of an alternative fuel.

(3) Records of all observations shall be maintained.

(4) Visible emissions observations of emission units operated during daylight hours shall be conducted no earlier than one hour after sunrise and no later than one hour before sunset. Visible emissions observations of emission units operated only at night must be made with additional lighting and the temporary installation of contrasting backgrounds. Visible emissions observations shall be made during times when the activities described in 30 TAC § 111.111(a)(1)(E) are not taking place. Visible emissions shall be determined with each stationary vent in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 mile, away from each stationary vent during the observation. For outdoor locations, the observer shall select a position where the sun is not directly in the observer's eyes. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor. A certified opacity reader is not required for visible emissions observations.

(5) Compliance Certification:

(a) If visible emissions are not present during the observation, the RO may certify that the source is in compliance with the applicable opacity requirement in 30 TAC § 111.111(a)(1) and (a)(1)(B).

(b) However, if visible emissions are present during the observation, the permit holder shall either list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2) or conduct the appropriate opacity test specified in 30 TAC § 111.111(a)(1)(F) as soon as practicable, but no later than 24 hours after observing visible emissions to determine if the source is in compliance with the opacity requirements. If an opacity test is performed and the source is determined to be in compliance, the RO may certify that the

source is in compliance with the applicable opacity requirement. However, if an opacity test is performed and the source is determined to be out of compliance, the permit holder shall list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2). The opacity test must be performed by a certified opacity reader.

(c) Some vents may be subject to multiple visible emission or monitoring requirements. All credible data must be considered when certifying compliance with this requirement even if the observation or monitoring was performed to demonstrate compliance with a different requirement.

B. For visible emissions from all other sources not specified in 30 TAC § 111.111(a)(1), (4), or (7); the permit holder shall comply with the following requirements:

(i) Title 30 TAC § 111.111(a)(8)(A) (relating to Requirements for Specified Sources)

(ii) Title 30 TAC § 111.111(a)(8)(B)(i) or (ii)

(iii) For a source subject to 30 TAC § 111.111(a)(8)(A), complying with 30 TAC § 111.111(a)(8)(B)(i) or (ii), and capable of producing visible emissions from, but not limited to, particulate matter, acid gases and NO_x, the permit holder shall also comply with the following periodic monitoring requirements for the purpose of annual compliance certification under 30 TAC § 122.146:

(1) An observation of visible emissions from a source which is required to comply with 30 TAC § 111.111(a)(8)(A) shall be conducted at least once during each calendar quarter unless the source is not operating for the entire quarter.

(2) Records of all observations shall be maintained.

(3) Visible emissions observations of sources operated during daylight hours shall be conducted no earlier than one hour after sunrise and no later than one hour before sunset. Visible emissions observations of sources operated only at night must be made with additional lighting and the temporary installation of contrasting backgrounds. Visible emissions shall be determined with each source in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 mile, away from each source during the observation. For outdoor locations, the observer shall select a position where the sun is not directly in the observer's eyes. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor. A certified opacity reader is not required for visible emissions observations.

(4) Compliance Certification:

(a) If visible emissions are not present during the observation, the RO may certify that the source is in compliance with the

applicable opacity requirement in 30 TAC § 111.111(a)(8) and (a)(8)(A)

(b) However, if visible emissions are present during the observation, the permit holder shall either list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2) or conduct the appropriate opacity test specified in 30 TAC § 111.111(a)(8)(B) as soon as practicable, but no later than 24 hours after observing visible emissions to determine if the source is in compliance with the opacity requirements. If an opacity test is performed and the source is determined to be in compliance, the RO may certify that the source is in compliance with the applicable opacity requirement. However, if an opacity test is performed and the source is determined to be out of compliance, the permit holder shall list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2). The opacity test must be performed by a certified opacity reader.

C. Emission limits on nonagricultural processes, except for the steam generators specified in 30 TAC § 111.153, shall comply with the following requirements:

(i) Emissions of PM from any source may not exceed the allowable rates as required in 30 TAC § 111.151(a) (relating to Allowable Emissions Limits)

(ii) Sources with an effective stack height (h_e) less than the standard effective stack height (H_e), must reduce the allowable emission level by multiplying it by $[h_e/H_e]^2$ as required in 30 TAC § 111.151(b)

(iii) Effective stack height shall be calculated by the equation specified in 30 TAC § 111.151(c)

4. The permit holder shall comply with the following requirements for units subject to any subpart of 40 CFR Part 60, unless otherwise stated in the applicable subpart:

A. Title 40 CFR § 60.7 (relating to Notification and Recordkeeping)

B. Title 40 CFR § 60.8 (relating to Performance Tests)

C. Title 40 CFR § 60.11 (relating to Compliance with Standards and Maintenance Requirements)

D. Title 40 CFR § 60.12 (relating to Circumvention)

E. Title 40 CFR § 60.13 (relating to Monitoring Requirements)

F. Title 40 CFR § 60.14 (relating to Modification)

G. Title 40 CFR § 60.15 (relating to Reconstruction)

H. Title 40 CFR § 60.19 (relating to General Notification and Reporting Requirements)

5. The permit holder shall comply with the requirements of 30 TAC Chapter 113, Subchapter C, § 113.100 for units subject to any subpart of 40 CFR Part 63, unless otherwise stated in the applicable subpart.

6. For the chemical manufacturing process specified in 40 CFR Part 63, Subpart F, the permit holder shall comply with 40 CFR § 63.103(a) (relating to General Compliance, Reporting, and Recordkeeping Provisions) (Title 30 TAC Chapter 113, Subchapter C, § 113.110 incorporated by reference).

7. For the chemical manufacturing facilities with a 40 CFR Part 63, Subpart G Group 2 wastewater stream, the permit holder shall comply with (Title 30 TAC Chapter 113, Subchapter C, § 113.120 incorporated by reference):

   A. Title 40 CFR § 63.132(a), (a)(1), and (a)(1)(i) (relating to Process Wastewater Provisions - General)

   B. Title 40 CFR § 63.146(b)(1) (relating to Process Wastewater Provisions - Reporting)

   C. Title 40 CFR § 63.147(b)(8) (relating to Process Wastewater Provisions - Recordkeeping)

8. For the chemical manufacturing facilities subject to leak detection requirements in 40 CFR Part 63, Subpart G, the permit holder shall comply with the following requirements (Title 30 TAC Chapter 113, Subchapter C, § 113.120 incorporated by reference):

   A. General Leak Detection Requirements:

      (i) Title 40 CFR § 63.148(d)(1) - (3), and (e) (relating to Leak Inspection Provisions)

      (ii) Title 40 CFR § 63.148(c), (g), (g)(2), (h), and (h)(2) (relating to Leak Inspection Provisions), for monitoring and testing requirements

      (iii) Title 40 CFR §§ 63.148(g)(2), (h)(2), (i)(1) - (2), (i)(4)(i) - (viii), (i)(5), and 63.152(a)(1) - (5), for recordkeeping requirements

      (iv) Title 40 CFR §§ 63.148(j), 63.151(a)(6)(i) - (iii), (b)(1) - (2), (j)(1) - (3), 63.152(a)(1) - (5), (b), (b)(1)(i) - (ii), and (b)(4), for reporting requirements

   B. For closed vent system or vapor collection systems constructed of hard piping:

      (i) Title 40 CFR § 63.148(b)(1)(ii) (relating to Leak Inspection Provisions), for monitoring and testing requirements

      (ii) Title 40 CFR § 63.148(i)(6) (relating to Leak Inspection Provisions), for recordkeeping requirements

9. For site remediation projects subject to 40 CFR Part 63, Subpart GGGGG that are completed within 30 consecutive calendar days the permit holder shall comply with 40 CFR § 63.7884(b), (b)(1) - (3) (Title 30 TAC, Subchapter C, § 113.1160 incorporated by reference).

10. The permit holder shall comply with certified registrations submitted to the TCEQ for purposes of establishing federally enforceable emission limits. A copy of the certified registration shall be maintained with the permit. Records sufficient to demonstrate compliance with the established limits shall be maintained. The certified registration and records demonstrating compliance shall be provided, on request, to representatives of the appropriate TCEQ regional office and any local air pollution control agency having jurisdiction over the site. The permit holder shall submit updated certified registrations when changes at the site require establishment of new emission limits. If changes result in emissions that do not remain below major source thresholds, the permit holder shall submit a revision application to codify the appropriate requirements in the permit.

Additional Monitoring Requirements

11. The permit holder shall comply with the periodic monitoring requirements as specified in the attached "Periodic Monitoring Summary" upon issuance of the permit. Except for, as applicable, monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments), the permit holder shall conduct all monitoring in continuous operation (or shall collect data at all required intervals) at all times that the pollutant-specific emissions unit is operating. The permit holder may elect to collect monitoring data on a more frequent basis and average the data, consistent with the averaging time or minimum frequency specified in the "Periodic Monitoring Summary," for purposes of determining whether a deviation has occurred. However, the additional data points must be collected on a regular basis. In no event shall data be collected and used in particular instances to avoid reporting deviations. Deviations shall be reported according to 30 TAC § 122.145 (Reporting Terms and Conditions).

New Source Review Authorization Requirements

12. Permit holder shall comply with the requirements of New Source Review authorizations issued or claimed by the permit holder for the permitted area, including permits, permits by rule, standard permits, flexible permits, special permits, permits for existing facilities including Voluntary Emissions Reduction Permits and Electric Generating Facility Permits issued under 30 TAC Chapter 116, Subchapter I, or special exemptions referenced in the New Source Review Authorization References attachment. These requirements:

    A. Are incorporated by reference into this permit as applicable requirements

    B. Shall be located with this operating permit

    C. Are not eligible for a permit shield

13. The permit holder shall comply with the general requirements of 30 TAC Chapter 106, Subchapter A or the general requirements, if any, in effect at the time of the claim of any PBR.

14. The permit holder shall maintain records to demonstrate compliance with any emission limitation or standard that is specified in a permit by rule (PBR) or Standard Permit listed in the New Source Review Authorizations attachment. The records shall yield reliable data from the relevant time period that are representative of the emission unit's compliance with the PBR or Standard Permit. These records may include, but are not limited to, production capacity and throughput, hours of operation, safety data sheets (SDS), chemical composition of raw materials, speciation of air contaminant data, engineering calculations, maintenance records, fugitive data, performance tests, capture/control device efficiencies, direct pollutant monitoring (CEMS, COMS, or PEMS), or control device parametric monitoring. These records shall be made readily accessible and available as required by 30 TAC § 122.144. Any monitoring or recordkeeping data indicating noncompliance with the PBR or Standard Permit shall be considered and reported as a deviation according to 30 TAC § 122.145 (Reporting Terms and Conditions).

Compliance Requirements

15. The permit holder shall certify compliance in accordance with 30 TAC § 122.146. The permit holder shall comply with 30 TAC § 122.146 using at a minimum, but not limited to, the continuous or intermittent compliance method data from monitoring, recordkeeping, reporting, or testing required by the permit and any other credible evidence or information. The certification period may not exceed 12 months and the certification must be submitted within 30 days after the end of the period being certified.

16. Use of Discrete Emission Credits to comply with the applicable requirements:

A. Unless otherwise prohibited, the permit holder may use discrete emission credits to comply with the following applicable requirements listed elsewhere in this permit:

(i) Title 30 TAC Chapter 115

(ii) Title 30 TAC Chapter 117

(iii) If applicable, offsets for Title 30 TAC Chapter 116

(iv) Temporarily exceed state NSR permit allowables

B. The permit holder shall comply with the following requirements in order to use the credit to comply with the applicable requirements:

(i) The permit holder must notify the TCEQ according to 30 TAC § 101.376(d)

(ii) The discrete emission credits to be used must meet all the geographic, timeliness, applicable pollutant type, and availability requirements listed in 30 TAC Chapter 101, Subchapter H, Division 4

(iii) The executive director has approved the use of the discrete emission credits according to 30 TAC § 101.376(d)(1)(A)

(iv) The permit holder keeps records of the use of credits towards compliance with the applicable requirements in accordance with 30 TAC § 101.372(h) and 30 TAC Chapter 122

(v) Title 30 TAC § 101.375 (relating to Emission Reductions Achieved Outside the United States)

Risk Management Plan

17. For processes subject to 40 CFR Part 68 and specified in 40 CFR § 68.10, the permit holder shall comply with the requirements of the Accidental Release Prevention Provisions in 40 CFR Part 68. The permit holder shall submit to the appropriate agency either a compliance schedule for meeting the requirements of 40 CFR Part 68 by the date provided in 40 CFR § 68.10(a), or as part of the compliance certification submitted under this permit, a certification statement that the source is in compliance with all requirements of 40 CFR Part 68, including the registration and submission of a risk management plan.

Permit Location

18. The permit holder shall maintain a copy of this permit and records related to requirements listed in this permit on site.

Permit Shield (30 TAC § 122.148)

19. A permit shield is granted for the emission units, groups, or processes specified in the attached "Permit Shield." Compliance with the conditions of the permit shall be deemed compliance with the specified potentially applicable requirements or specified potentially applicable state-only requirements listed in the attachment "Permit Shield." Permit shield provisions shall not be modified by the executive director until notification is provided to the permit holder. No later than 90 days after notification of a change in a determination made by the executive director, the

permit holder shall apply for the appropriate permit revision to reflect the new determination. Provisional terms are not eligible for this permit shield. Any term or condition, under a permit shield, shall not be protected by the permit shield if it is replaced by a provisional term or condition or the basis of the term and condition changes.

Attachments

Applicable Requirements Summary

Additional Monitoring Requirements

Permit Shield

New Source Review Authorization References

Applicable Requirements Summary

Note: A “none” entry may be noted for some emission sources in this permit’s “Applicable Requirements Summary” under the heading of “Monitoring and Testing Requirements” and/or “Recordkeeping Requirements” and/or “Reporting Requirements.” Such a notation indicates that there are no requirements for the indicated emission source as identified under the respective column heading(s) for the stated portion of the regulation when the emission source is operating under the conditions of the specified SOP Index Number. However, other relevant requirements pursuant to 30 TAC Chapter 122 including Recordkeeping Terms and Conditions (30 TAC § 122.144), Reporting Terms and Conditions (30 TAC § 122.145), and Compliance Certification Terms and Conditions (30 TAC § 122.146) continue to apply.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
OX004R1E	REACTOR	N/A	60RRR-0001a	40 CFR Part 60, Subpart RRR	Control Device = Boiler or process heater with design heat input of 44 MW (150MMBTU/hr) or greater.
OX004R1E	REACTOR	N/A	60RRR-0001b	40 CFR Part 60, Subpart RRR	Control Device = Flare that meets the requirements of 40 CFR § 60.18.
OX005FL1	FLARES	N/A	R1111-0001	30 TAC Chapter 111, Visible Emissions	No changing attributes.
OX005FL1	FLARES	N/A	60A-0001	40 CFR Part 60, Subpart A	No changing attributes.
OX005FL1	FLARES	N/A	63A-0001	40 CFR Part 63, Subpart A	No changing attributes.
OX005FL2	FLARES	N/A	R1111-0001	30 TAC Chapter 111, Visible Emissions	No changing attributes.
OX022T113	STORAGE TANKS/VESSELS	N/A	63G-0003	40 CFR Part 63, Subpart G	No changing attributes.
OX026T148	STORAGE TANKS/VESSELS	N/A	63G-0004	40 CFR Part 63, Subpart G	No changing attributes.
OX026T162	STORAGE TANKS/VESSELS	N/A	63G-0004	40 CFR Part 63, Subpart G	No changing attributes.
OX026T194	STORAGE TANKS/VESSELS	N/A	63G-0008	40 CFR Part 63, Subpart G	No changing attributes.
OX026T303	STORAGE TANKS/VESSELS	N/A	63G-0008	40 CFR Part 63, Subpart G	No changing attributes.
OX026T32	STORAGE TANKS/VESSELS	N/A	63G-0004	40 CFR Part 63, Subpart G	No changing attributes.
OX026T35	STORAGE TANKS/VESSELS	N/A	63G-0018	40 CFR Part 63, Subpart G	No changing attributes.
OX027FL1	FLARES	N/A	R1111-0001	30 TAC Chapter 111, Visible Emissions	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
OX027FL1	FLARES	N/A	63A-0003	40 CFR Part 63, Subpart A	No changing attributes.
OX027T166	STORAGE TANKS/VESSELS	N/A	60Kb-0001	40 CFR Part 60, Subpart Kb	No changing attributes.
OX050T421	STORAGE TANKS/VESSELS	N/A	63G-0001	40 CFR Part 63, Subpart G	No changing attributes.
OX053FG1	FUGITIVE EMISSION UNITS	N/A	63H-0003	40 CFR Part 63, Subpart H	No changing attributes.
OX053T245	STORAGE TANKS/VESSELS	N/A	63G-0002	40 CFR Part 63, Subpart G	No changing attributes.
OX053T28	STORAGE TANKS/VESSELS	N/A	63G-0002	40 CFR Part 63, Subpart G	No changing attributes.
OX053T502	STORAGE TANKS/VESSELS	N/A	63G-0002	40 CFR Part 63, Subpart G	No changing attributes.
OX053WW1	TREATMENT PROCESS	N/A	63G-0055	40 CFR Part 63, Subpart G	No changing attributes.
PROD20DSS	TREATMENT PROCESS	N/A	63G-0058	40 CFR Part 63, Subpart G	No changing attributes.
PROOXOALD	CHEMICAL MANUFACTURING PROCESS	N/A	63F-0003	40 CFR Part 63, Subpart F	No changing attributes.
SD022T114	STORAGE TANKS/VESSELS	N/A	63G-0001	40 CFR Part 63, Subpart G	No changing attributes.

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
OX004R1E	EU	60RRR-0001a	VOC/TOC	40 CFR Part 60, Subpart RRR	§ 60.702(a) [G]§ 60.704(b)(5)	For each vent stream, reduce TOC by 98%w or to a TOC concentration of 20 ppmv, on a dry basis corrected to 3% oxygen, whichever is less stringent. If a boiler or process heater is used, introduce vent stream as specified.	§ 60.703(c) § 60.704(a) § 60.704(b) § 60.704(b)(1) § 60.704(b)(2) § 60.704(b)(3) [G]§ 60.704(b)(4)	§ 60.705(b) § 60.705(b)(2)(i) § 60.705(c) § 60.705(c)(4) § 60.705(s)	§ 60.705(a) § 60.705(b) § 60.705(b)(2)(i) § 60.705(c) § 60.705(c)(4) § 60.705(k) § 60.705(l) § 60.705(l)(1) § 60.705(s)
OX004R1E	EU	60RRR-0001b	VOC/TOC	40 CFR Part 60, Subpart RRR	§ 60.702(b) § 60.18	For each vent stream, combust the emissions in a flare that meets the requirements of §60.18.	§ 60.703(b) § 60.703(b)(1) § 60.704(a) § 60.704(c) [G]§ 60.704(d)	§ 60.705(b) § 60.705(b)(3) § 60.705(e) § 60.705(s)	§ 60.705(a) § 60.705(b) § 60.705(b)(3) § 60.705(k) § 60.705(l) § 60.705(l)(3) § 60.705(s)
OX005FL1	EU	R1111-0001	Opacity	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(4)(A)	Visible emissions from a process gas flare shall not be permitted for more than five minutes in any two-hour period, except for upset emissions as provided in §101.222(b).	§ 111.111(a)(4)(A)(i) § 111.111(a)(4)(A)(ii)	§ 111.111(a)(4)(A)(ii)	None
OX005FL1	CD	60A-0001	Opacity	40 CFR Part 60, Subpart A	§ 60.18(b) § 60.18(c)(1) § 60.18(c)(2) § 60.18(c)(3)(ii) § 60.18(c)(4)(i) § 60.18(c)(6) § 60.18(e)	Flares shall comply with paragraphs (c)-(f) of § 60.18.	§ 60.18(d) § 60.18(f)(1) § 60.18(f)(2) § 60.18(f)(3) § 60.18(f)(4)	None	None
OX005FL1	CD	63A-0001	112(B) HAPS	40 CFR Part 63, Subpart A	§ 63.11(b)(4) § 63.11(b)(1) § 63.11(b)(2) § 63.11(b)(3) § 63.11(b)(5) § 63.11(b)(6)(ii)	Flares shall be designed and operated with no visible emissions, except for periods of a total of 5 minutes or less during any 2 consecutive hrs. Test	§ 63.11(b)(4) § 63.11(b)(5) § 63.11(b)(7)(i)	None	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					§ 63.11(b)(7)(i)	Method 22 in App. A of part 60 of this chapter shall be used.			
OX005FL2	CD	R1111-0001	Opacity	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(4)(A)	Visible emissions from a process gas flare shall not be permitted for more than five minutes in any two-hour period, except for upset emissions as provided in §101.222(b).	§ 111.111(a)(4)(A)(i) § 111.111(a)(4)(A)(ii)	§ 111.111(a)(4)(A)(ii)	None
OX022T113	EU	63G-0003	112(B) HAPS	40 CFR Part 63, Subpart G	§ 63.133(a)(2)(ii) § 63.132(a)(2)(i)(A) § 63.132(a)(2)(i)(B) [G]§ 63.132(f) § 63.133(f) § 63.133(h) § 63.140(a) § 63.140(b) § 63.140(c) § 63.144(a)	A fixed roof and an internal floating roof that meets the requirements specified in Sec. 63.119(b) of this subpart;	§ 63.133(f) § 63.133(g) § 63.133(g)(2) § 63.133(g)(3) § 63.143(a) § 63.143(g)	§ 63.133(h) § 63.147(b) § 63.147(b)(1) § 63.147(b)(6) § 63.147(b)(7) [G]§ 63.152(a)	§ 63.146(b)(2) § 63.146(b)(5) § 63.146(b)(6) § 63.146(c) § 63.146(g) [G]§ 63.151(b) § 63.151(e) § 63.151(e)(1) § 63.151(e)(2) § 63.151(e)(3) [G]§ 63.151(j) [G]§ 63.152(a) § 63.152(b) [G]§ 63.152(b)(1) § 63.152(b)(4) § 63.152(c)(1) § 63.152(c)(3) § 63.152(c)(3)(i) § 63.152(c)(3)(ii) § 63.152(c)(4)(ii) [G]§ 63.152(c)(6)
OX026T148	EU	63G-0004	112(B) HAPS	40 CFR Part 63, Subpart G	§ 63.119(e) § 63.11 § 63.119(a)(1) § 63.119(e)(1) § 63.119(e)(3) § 63.119(e)(4) § 63.119(e)(5)	The owner or operator who elects to use a closed vent system and control device (defined in § 63.111) to comply with§63.119(a)(1) or (a)(2) shall comply with	§ 63.120(e)(1) § 63.120(e)(4) § 63.120(e)(5) § 63.148(b)(1)(ii) [G]§ 63.148(c) § 63.148(g) § 63.148(g)(2)	§ 63.123(a) [G]§ 63.123(f)(2) § 63.148(g)(2) § 63.148(h)(2) § 63.148(i)(1) § 63.148(i)(2) [G]§ 63.148(i)(4)	[G]§ 63.120(e)(2) § 63.122(c)(2) [G]§ 63.122(g)(1) [G]§ 63.122(g)(3) § 63.148(j) § 63.151(a)(7) [G]§ 63.151(b)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					[G]§ 63.148(d) § 63.148(e)	§63.119(e)(1)-(5).	§ 63.148(h) § 63.148(h)(2)	§ 63.148(i)(5) § 63.148(i)(6) [G]§ 63.152(a)	[G]§ 63.151(j) [G]§ 63.152(a) § 63.152(b) [G]§ 63.152(b)(1) § 63.152(b)(4) § 63.152(c)(1) § 63.152(c)(2) § 63.152(c)(2)(i) [G]§ 63.152(c)(2)(ii) § 63.152(c)(2)(iii) § 63.152(c)(3) § 63.152(c)(3)(i) § 63.152(c)(4)(ii) [G]§ 63.152(c)(6)
OX026T162	EU	63G-0004	112(B) HAPS	40 CFR Part 63, Subpart G	§ 63.119(e) § 63.11 § 63.119(a)(1) § 63.119(e)(1) § 63.119(e)(3) § 63.119(e)(4) § 63.119(e)(5) [G]§ 63.148(d) § 63.148(e)	The owner or operator who elects to use a closed vent system and control device (defined in § 63.111) to comply with§63.119(a)(1) or (a)(2) shall comply with §63.119(e)(1)-(5).	§ 63.120(e)(1) § 63.120(e)(4) § 63.120(e)(5) § 63.148(b)(1)(ii) [G]§ 63.148(c) § 63.148(g) § 63.148(g)(2) § 63.148(h) § 63.148(h)(2)	§ 63.123(a) [G]§ 63.123(f)(2) § 63.148(g)(2) § 63.148(h)(2) § 63.148(i)(1) § 63.148(i)(2) [G]§ 63.148(i)(4) § 63.148(i)(5) § 63.148(i)(6) [G]§ 63.152(a)	[G]§ 63.120(e)(2) § 63.122(c)(2) [G]§ 63.122(g)(1) [G]§ 63.122(g)(3) § 63.148(j) § 63.151(a)(7) [G]§ 63.151(b) [G]§ 63.151(j) [G]§ 63.152(a) § 63.152(b) [G]§ 63.152(b)(1) § 63.152(b)(4) § 63.152(c)(1) § 63.152(c)(2) § 63.152(c)(2)(i) [G]§ 63.152(c)(2)(ii) § 63.152(c)(2)(iii) § 63.152(c)(3) § 63.152(c)(3)(i) § 63.152(c)(4)(ii) [G]§ 63.152(c)(6)
OX026T194	EU	63G-0008	112(B) HAPS	40 CFR Part 63, Subpart G	§ 63.119(e) § 63.119(a)(1) § 63.119(e)(2)	The owner or operator who elects to use a closed vent system and control	§ 63.120(d)(6) § 63.148(b)(1)(ii) [G]§ 63.148(c)	§ 63.123(a) [G]§ 63.123(f)(2) § 63.148(g)(2)	§ 63.122(b) § 63.122(c)(1) [G]§ 63.122(g)(1)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					§ 63.119(e)(3) § 63.119(e)(4) § 63.119(e)(5) [G]§ 63.148(d) § 63.148(e)	device (defined in § 63.111) to comply with§63.119(a)(1) or (a)(2) shall comply with §63.119(e)(1)-(5).	§ 63.148(g) § 63.148(g)(2) § 63.148(h) § 63.148(h)(2)	§ 63.148(h)(2) § 63.148(i)(1) § 63.148(i)(2) [G]§ 63.148(i)(4) § 63.148(i)(5) § 63.148(i)(6) [G]§ 63.152(a)	[G]§ 63.122(g)(2) § 63.148(j) § 63.151(a)(7) [G]§ 63.151(b) [G]§ 63.151(j) [G]§ 63.152(a) § 63.152(b) [G]§ 63.152(b)(1) § 63.152(b)(4) § 63.152(c)(1) § 63.152(c)(2) § 63.152(c)(2)(i) [G]§ 63.152(c)(2)(ii) § 63.152(c)(2)(iii) § 63.152(c)(3) § 63.152(c)(3)(i) § 63.152(c)(4)(ii) [G]§ 63.152(c)(6)
OX026T303	EU	63G-0008	112(B) HAPS	40 CFR Part 63, Subpart G	§ 63.119(e) § 63.119(a)(1) § 63.119(e)(2) § 63.119(e)(3) § 63.119(e)(4) § 63.119(e)(5) [G]§ 63.148(d) § 63.148(e)	The owner or operator who elects to use a closed vent system and control device (defined in § 63.111) to comply with§63.119(a)(1) or (a)(2) shall comply with §63.119(e)(1)-(5).	§ 63.120(d)(6) § 63.148(b)(1)(ii) [G]§ 63.148(c) § 63.148(g) § 63.148(g)(2) § 63.148(h) § 63.148(h)(2)	§ 63.123(a) [G]§ 63.123(f)(2) § 63.148(g)(2) § 63.148(h)(2) § 63.148(i)(1) § 63.148(i)(2) [G]§ 63.148(i)(4) § 63.148(i)(5) § 63.148(i)(6) [G]§ 63.152(a)	§ 63.122(b) § 63.122(c)(1) [G]§ 63.122(g)(1) [G]§ 63.122(g)(2) § 63.148(j) § 63.151(a)(7) [G]§ 63.151(b) [G]§ 63.151(j) [G]§ 63.152(a) § 63.152(b) [G]§ 63.152(b)(1) § 63.152(b)(4) § 63.152(c)(1) § 63.152(c)(2) § 63.152(c)(2)(i) [G]§ 63.152(c)(2)(ii) § 63.152(c)(2)(iii) § 63.152(c)(3) § 63.152(c)(3)(i) § 63.152(c)(4)(ii) [G]§ 63.152(c)(6)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
OX026T32	EU	63G-0004	112(B) HAPS	40 CFR Part 63, Subpart G	§ 63.119(e) § 63.11 § 63.119(a)(1) § 63.119(e)(1) § 63.119(e)(3) § 63.119(e)(4) § 63.119(e)(5) [G]§ 63.148(d) § 63.148(e)	The owner or operator who elects to use a closed vent system and control device (defined in § 63.111) to comply with§63.119(a)(1) or (a)(2) shall comply with §63.119(e)(1)-(5).	§ 63.120(e)(1) § 63.120(e)(4) § 63.120(e)(5) § 63.148(b)(1)(ii) [G]§ 63.148(c) § 63.148(g) § 63.148(g)(2) § 63.148(h) § 63.148(h)(2)	§ 63.123(a) [G]§ 63.123(f)(2) § 63.148(g)(2) § 63.148(h)(2) § 63.148(i)(1) § 63.148(i)(2) [G]§ 63.148(i)(4) § 63.148(i)(5) § 63.148(i)(6) [G]§ 63.152(a)	[G]§ 63.120(e)(2) § 63.122(c)(2) [G]§ 63.122(g)(1) [G]§ 63.122(g)(3) § 63.148(j) § 63.151(a)(7) [G]§ 63.151(b) [G]§ 63.151(j) [G]§ 63.152(a) § 63.152(b) [G]§ 63.152(b)(1) § 63.152(b)(4) § 63.152(c)(1) § 63.152(c)(2) § 63.152(c)(2)(i) [G]§ 63.152(c)(2)(ii) § 63.152(c)(2)(iii) § 63.152(c)(3) § 63.152(c)(3)(i) § 63.152(c)(4)(ii) [G]§ 63.152(c)(6)
OX026T35	EU	63G-0018	112(B) HAPS	40 CFR Part 63, Subpart G	§ 63.119(a)(3)	Group 2 tanks not using emissions averaging as prescribed by §63.150 shall use record keeping methods in §63.123(a). Not required to comply with §63.119 to §63.123.	None	§ 63.123(a)	§ 63.152(c)(4)(iii)
OX027FL1	CD	R1111-0001	Opacity	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(4)(A)	Visible emissions from a process gas flare shall not be permitted for more than five minutes in any two-hour period, except for upset emissions as provided in §101.222(b).	§ 111.111(a)(4)(A)(i) § 111.111(a)(4)(A)(ii)	§ 111.111(a)(4)(A)(ii)	None
OX027FL1	CD	63A-0003	112(B) HAPS	40 CFR Part 63, Subpart A	§ 63.11(b)(4) § 63.11(b)(1) § 63.11(b)(2)	Flares shall be designed and operated with no visible emissions, except	§ 63.11(b)(4) § 63.11(b)(5) § 63.11(b)(7)(i)	None	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					§ 63.11(b)(3) § 63.11(b)(5) § 63.11(b)(6)(ii) § 63.11(b)(7)(i)	for periods of a total of 5 minutes or less during any 2 consecutive hrs. Test Method 22 in App. A of part 60 of this chapter shall be used.			
OX027T166	EU	60Kb-0001	VOC	40 CFR Part 60, Subpart Kb	[G]§ 60.112b(a)(3)	Storage vessels specified in §60.112b(a) and equipped with a closed vent system/control device are to meet the specifications of §60.112b(a)(3)(i)-(ii).	[G]§ 60.113b(c)(1) § 60.113b(c)(2) § 60.116b(a) § 60.116b(b) § 60.116b(e) § 60.116b(e)(1) [G]§ 60.116b(e)(3) [G]§ 60.485(b) ** See Periodic Monitoring Summary	§ 60.115b [G]§ 60.115b(c) § 60.116b(a) § 60.116b(b)	[G]§ 60.113b(c)(1) § 60.115b
OX050T421	EU	63G-0001	112(B) HAPS	40 CFR Part 63, Subpart G	§ 63.133(a)(1)	A fixed roof shall be operated and maintained except that if the wastewater tank is used for specified purpose, then owner or operator shall comply with requirements of § 63.133(a)(2).	None	None	§ 63.146(b)(2) § 63.146(b)(5) [G]§ 63.151(b) § 63.151(e) § 63.151(e)(1) § 63.151(e)(2) [G]§ 63.151(j) [G]§ 63.152(a) § 63.152(b) [G]§ 63.152(b)(1) § 63.152(c)(1) § 63.152(c)(4)(ii)
OX053FG1	EU	63H-0003	112(B) HAPS	40 CFR Part 63, Subpart H	[G]§ 63.164 § 63.162(a) § 63.162(c) [G]§ 63.162(f) [G]§ 63.162(g) § 63.162(h) [G]§ 63.171	Standards: Compressors. §63.164(a)-(i)	[G]§ 63.164 [G]§ 63.180(b) [G]§ 63.180(c) [G]§ 63.180(d)	§ 63.181(a) [G]§ 63.181(b) § 63.181(c) [G]§ 63.181(d) [G]§ 63.181(f)	[G]§ 63.182(a) [G]§ 63.182(b) § 63.182(c) [G]§ 63.182(c)(1) § 63.182(c)(4) [G]§ 63.182(d)
OX053FG1	EU	63H-0003	112(B) HAPS	40 CFR Part 63, Subpart H	[G]§ 63.165 § 63.162(a)	Standards: Pressure relief device in gas/vapor	[G]§ 63.165 [G]§ 63.180(b)	§ 63.181(a) [G]§ 63.181(b)	[G]§ 63.182(a) [G]§ 63.182(b)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					§ 63.162(c) [G]§ 63.162(g) § 63.162(h) [G]§ 63.171	service. §63.165(a)-(d)	[G]§ 63.180(c) [G]§ 63.180(d)	§ 63.181(c) [G]§ 63.181(f)	§ 63.182(c) [G]§ 63.182(c)(1) § 63.182(c)(4) [G]§ 63.182(d)
OX053FG1	EU	63H-0003	112(B) HAPS	40 CFR Part 63, Subpart H	[G]§ 63.166 § 63.162(a) § 63.162(c) [G]§ 63.162(g) § 63.162(h) [G]§ 63.171	Standards: Sampling connection systems. §63.166(a)-(c)	[G]§ 63.180(b) [G]§ 63.180(d)	§ 63.181(a) [G]§ 63.181(b) § 63.181(c)	[G]§ 63.182(a) [G]§ 63.182(b) § 63.182(c) [G]§ 63.182(c)(1) § 63.182(c)(4) [G]§ 63.182(d)
OX053FG1	EU	63H-0003	112(B) HAPS	40 CFR Part 63, Subpart H	[G]§ 63.169 § 63.162(a) § 63.162(c) [G]§ 63.162(f) [G]§ 63.162(g) § 63.162(h) [G]§ 63.171	Standards: Instrumentation systems. §63.169(a)-(d)	[G]§ 63.169 [G]§ 63.180(b) [G]§ 63.180(d)	§ 63.181(a) [G]§ 63.181(b) § 63.181(c) [G]§ 63.181(d)	[G]§ 63.182(a) [G]§ 63.182(b) § 63.182(c) [G]§ 63.182(c)(1) § 63.182(c)(4) [G]§ 63.182(d)
OX053FG1	EU	63H-0003	112(B) HAPS	40 CFR Part 63, Subpart H	§ 63.170 § 63.162(a) § 63.162(c) [G]§ 63.162(g) § 63.162(h) [G]§ 63.171	Standards: Surge control vessels and bottom receivers.	[G]§ 63.180(b) [G]§ 63.180(d)	§ 63.181(a) [G]§ 63.181(b) § 63.181(c)	[G]§ 63.182(a) [G]§ 63.182(b) § 63.182(c) [G]§ 63.182(c)(1) § 63.182(c)(4) [G]§ 63.182(d)
OX053FG1	EU	63H-0003	112(B) HAPS	40 CFR Part 63, Subpart H	§ 63.172(a) [G]§ 63.172(h) § 63.172(i) § 63.172(m)	Owners/operators of closed-vent systems and control devices used to comply with provisions of this subpart shall comply with the provisions of this section, except as provided in §63.162(b).	[G]§ 63.172(f)(1) [G]§ 63.172(f)(2) § 63.172(g) [G]§ 63.172(h) [G]§ 63.172(l) [G]§ 63.180(b) [G]§ 63.180(d)	[G]§ 63.172(l) § 63.181(a) [G]§ 63.181(b) § 63.181(c) [G]§ 63.181(d) § 63.181(g) § 63.181(g)(1)(i) § 63.181(g)(1)(ii) [G]§ 63.181(g)(2) [G]§ 63.181(g)(3)	[G]§ 63.182(a) [G]§ 63.182(b) § 63.182(c) [G]§ 63.182(c)(1) § 63.182(c)(4) [G]§ 63.182(d)
OX053FG1	EU	63H-0003	112(B) HAPS	40 CFR Part 63, Subpart H	§ 63.172(d) § 63.11(b) § 63.172(e)	Flares used to comply with this subpart shall comply with the	§ 63.172(e) [G]§ 63.172(h) [G]§ 63.180(b)	§ 63.181(a) [G]§ 63.181(b) § 63.181(c)	[G]§ 63.182(a) [G]§ 63.182(b) § 63.182(c)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					[G]§ 63.172(h) § 63.172(m)	requirements of § 63.11(b) of 40 CFR 63, Subpart A.	[G]§ 63.180(d) [G]§ 63.180(e)	[G]§ 63.181(d) § 63.181(g) § 63.181(g)(1)(i) § 63.181(g)(1)(ii) § 63.181(g)(1)(iii) § 63.181(g)(1)(iv) [G]§ 63.181(g)(2)	[G]§ 63.182(c)(1) § 63.182(c)(4) [G]§ 63.182(d)
OX053FG1	EU	63H-0003	112(B) HAPS	40 CFR Part 63, Subpart H	[G]§ 63.173 § 63.162(a) § 63.162(c) [G]§ 63.162(f) [G]§ 63.162(g) § 63.162(h) [G]§ 63.171	Standards: Agitators gas/vapor service and in light liquid service. §63.173(a)-(j).	[G]§ 63.173 [G]§ 63.180(b) [G]§ 63.180(d)	§ 63.181(a) [G]§ 63.181(b) § 63.181(c) [G]§ 63.181(d)	[G]§ 63.182(a) [G]§ 63.182(b) § 63.182(c) [G]§ 63.182(c)(1) § 63.182(c)(4) [G]§ 63.182(d)
OX053FG1	EU	63H-0003	112(B) HAPS	40 CFR Part 63, Subpart H	[G]§ 63.174 § 63.162(a) § 63.162(c) [G]§ 63.162(f) [G]§ 63.162(g) § 63.162(h) [G]§ 63.171	Standards: Connectors in gas/vapor service and in light liquid service. §63.174(a)-(j)	[G]§ 63.174 [G]§ 63.180(b) [G]§ 63.180(d)	§ 63.181(a) [G]§ 63.181(b) § 63.181(c) [G]§ 63.181(d)	[G]§ 63.182(a) [G]§ 63.182(b) § 63.182(c) [G]§ 63.182(c)(1) § 63.182(c)(4) [G]§ 63.182(d)
OX053FG1	EU	63H-0003	112(B) HAPS	40 CFR Part 63, Subpart H	[G]§ 63.163 § 63.162(a) § 63.162(c) [G]§ 63.162(f) [G]§ 63.162(g) § 63.162(h) [G]§ 63.171 [G]§ 63.176	Standards: Pumps in light liquid service. §63.163(a)-(j)	[G]§ 63.163 [G]§ 63.176 [G]§ 63.180(b) [G]§ 63.180(d)	§ 63.181(a) [G]§ 63.181(b) § 63.181(c) [G]§ 63.181(d) § 63.181(h) [G]§ 63.181(h)(3) § 63.181(h)(4) [G]§ 63.181(h)(5) § 63.181(h)(6) § 63.181(h)(7) § 63.181(h)(8)	[G]§ 63.182(a) [G]§ 63.182(b) § 63.182(c) [G]§ 63.182(c)(1) § 63.182(c)(4) [G]§ 63.182(d)
OX053FG1	EU	63H-0003	112(B) HAPS	40 CFR Part 63, Subpart H	[G]§ 63.167 § 63.162(a) § 63.162(c) [G]§ 63.162(g) § 63.162(h)	Standards: Open-ended valves or lines. §63.167(a)-(e).	[G]§ 63.175 [G]§ 63.180(b) [G]§ 63.180(d)	§ 63.181(a) [G]§ 63.181(b) § 63.181(c) § 63.181(h) [G]§ 63.181(h)(1)	[G]§ 63.182(a) [G]§ 63.182(b) § 63.182(c) [G]§ 63.182(c)(1) § 63.182(c)(4)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					[G]§ 63.171 [G]§ 63.175			[G]§ 63.181(h)(2) § 63.181(h)(4) [G]§ 63.181(h)(5) § 63.181(h)(6) § 63.181(h)(7)	[G]§ 63.182(d)
OX053FG1	EU	63H-0003	112(B) HAPS	40 CFR Part 63, Subpart H	[G]§ 63.168 § 63.162(a) § 63.162(c) [G]§ 63.162(f) [G]§ 63.162(g) § 63.162(h) [G]§ 63.171 [G]§ 63.175	Standards: Valves in gas/vapor service and in light liquid service. §63.168(a)-(j)	[G]§ 63.168 [G]§ 63.175 [G]§ 63.180(b) [G]§ 63.180(d)	§ 63.181(a) [G]§ 63.181(b) § 63.181(c) [G]§ 63.181(d) § 63.181(h) [G]§ 63.181(h)(1) [G]§ 63.181(h)(2) § 63.181(h)(4) [G]§ 63.181(h)(5) § 63.181(h)(6) § 63.181(h)(7)	[G]§ 63.182(a) [G]§ 63.182(b) § 63.182(c) [G]§ 63.182(c)(1) § 63.182(c)(4) [G]§ 63.182(d)
OX053T245	EU	63G-0002	112(B) HAPS	40 CFR Part 63, Subpart G	§ 63.133(a)(1)	A fixed roof shall be operated and maintained except that if the wastewater tank is used for specified purpose, then owner or operator shall comply with requirements of § 63.133(a)(2).	None	None	§ 63.146(b)(2) § 63.146(b)(5) [G]§ 63.151(b) § 63.151(e) § 63.151(e)(1) § 63.151(e)(2) [G]§ 63.151(j) [G]§ 63.152(a) § 63.152(b) [G]§ 63.152(b)(1) § 63.152(c)(1) § 63.152(c)(4)(ii)
OX053T28	EU	63G-0002	112(B) HAPS	40 CFR Part 63, Subpart G	§ 63.133(a)(1)	A fixed roof shall be operated and maintained except that if the wastewater tank is used for specified purpose, then owner or operator shall comply with requirements of § 63.133(a)(2).	None	None	§ 63.146(b)(2) § 63.146(b)(5) [G]§ 63.151(b) § 63.151(e) § 63.151(e)(1) § 63.151(e)(2) [G]§ 63.151(j) [G]§ 63.152(a) § 63.152(b) [G]§ 63.152(b)(1)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
									§ 63.152(c)(1) § 63.152(c)(4)(ii)
OX053T502	EU	63G-0002	112(B) HAPS	40 CFR Part 63, Subpart G	§ 63.133(a)(1)	A fixed roof shall be operated and maintained except that if the wastewater tank is used for specified purpose, then owner or operator shall comply with requirements of § 63.133(a)(2).	None	None	§ 63.146(b)(2) § 63.146(b)(5) [G]§ 63.151(b) § 63.151(e) § 63.151(e)(1) § 63.151(e)(2) [G]§ 63.151(j) [G]§ 63.152(a) § 63.152(b) [G]§ 63.152(b)(1) § 63.152(c)(1) § 63.152(c)(4)(ii)
OX053WW1	EU	63G-0055	112(B) HAPS	40 CFR Part 63, Subpart G	[G]§ 63.138(d) [G]§ 63.132(f) [G]§ 63.138(k) § 63.140(a) § 63.140(b) § 63.140(c) § 63.144(a)	The steam stripper shall be operated and maintained and it shall conform as specified. §63.138(d)(1)-(6)	§ 63.143(b) § 63.143(f) § 63.143(g) § 63.144(b) § 63.144(b)(1) § 63.144(b)(2) § 63.144(b)(3) § 63.144(b)(4) § 63.144(b)(5) [G]§ 63.144(b)(5)(i) § 63.144(b)(5)(ii) [G]§ 63.144(b)(5)(iii) § 63.144(b)(5)(iv) § 63.144(b)(6) § 63.144(c) § 63.144(c)(1) § 63.144(c)(2) § 63.144(c)(3) § 63.144(c)(4) § 63.145(a) § 63.145(a)(1) § 63.145(a)(3) § 63.145(a)(5)	§ 63.143(f) § 63.144(b)(3) § 63.144(b)(4) § 63.144(b)(5)(ii) § 63.144(c)(1) § 63.144(c)(2) § 63.144(c)(3) § 63.145(a)(3) § 63.147(b) § 63.147(b)(4) § 63.147(b)(7) § 63.147(d) § 63.147(e) § 63.147(f) [G]§ 63.152(a) [G]§ 63.152(f)	§ 63.146(b)(2) § 63.146(b)(4) § 63.146(b)(5) § 63.146(b)(6) [G]§ 63.146(b)(8) [G]§ 63.146(d) § 63.146(f) [G]§ 63.151(b) § 63.151(e) § 63.151(e)(1) § 63.151(e)(2) § 63.151(e)(3) [G]§ 63.151(g) § 63.151(h) [G]§ 63.151(j) [G]§ 63.152(a) § 63.152(b) [G]§ 63.152(b)(1) [G]§ 63.152(b)(2) § 63.152(b)(4) § 63.152(c)(1) § 63.152(c)(2) § 63.152(c)(2)(i) [G]§ 63.152(c)(2)(ii)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
									§ 63.152(c)(2)(iii) § 63.152(c)(2)(iv) § 63.152(c)(3) § 63.152(c)(3)(i) § 63.152(c)(3)(ii) § 63.152(c)(4)(ii) [G]§ 63.152(c)(6)
PROD20DSS	PRO	63G-0058	112(B) HAPS	40 CFR Part 63, Subpart G	[G]§ 63.138(d) [G]§ 63.132(f) [G]§ 63.138(k) § 63.140(a) § 63.140(b) § 63.140(c) § 63.144(a)	The steam stripper shall be operated and maintained and it shall conform as specified. §63.138(d)(1)-(6)	§ 63.143(b) § 63.143(f) § 63.143(g) § 63.144(b) § 63.144(b)(1) § 63.144(b)(2) § 63.144(b)(3) § 63.144(b)(4) § 63.144(b)(5) [G]§ 63.144(b)(5)(i) § 63.144(b)(5)(ii) [G]§ 63.144(b)(5)(iii) § 63.144(b)(5)(iv) § 63.144(b)(6) § 63.144(c) § 63.144(c)(1) § 63.144(c)(2) § 63.144(c)(3) § 63.144(c)(4) § 63.145(a) § 63.145(a)(1) § 63.145(a)(3) § 63.145(a)(5)	§ 63.143(f) § 63.144(b)(3) § 63.144(b)(4) § 63.144(b)(5)(ii) § 63.144(c)(1) § 63.144(c)(2) § 63.144(c)(3) § 63.145(a)(3) § 63.147(b) § 63.147(b)(4) § 63.147(b)(7) § 63.147(d) § 63.147(e) § 63.147(f) [G]§ 63.152(a) [G]§ 63.152(f)	§ 63.146(b)(2) § 63.146(b)(4) § 63.146(b)(5) § 63.146(b)(6) [G]§ 63.146(b)(8) [G]§ 63.146(d) § 63.146(f) [G]§ 63.151(b) § 63.151(e) § 63.151(e)(1) § 63.151(e)(2) § 63.151(e)(3) [G]§ 63.151(g) § 63.151(h) [G]§ 63.151(j) [G]§ 63.152(a) § 63.152(b) [G]§ 63.152(b)(1) [G]§ 63.152(b)(2) § 63.152(b)(4) § 63.152(c)(1) § 63.152(c)(2) § 63.152(c)(2)(i) [G]§ 63.152(c)(2)(ii) § 63.152(c)(2)(iii) § 63.152(c)(2)(iv) § 63.152(c)(3) § 63.152(c)(3)(i) § 63.152(c)(3)(ii) § 63.152(c)(4)(ii) [G]§ 63.152(c)(6)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
PROOXOALD	PRO	63F-0003	112(B) HAPS	40 CFR Part 63, Subpart F	§ 63.100(b) [G]§ 63.102(a) [G]§ 63.102(c) § 63.104(a) [G]§ 63.104(d) § 63.104(e) § 63.104(e)(1) [G]§ 63.104(e)(2) § 63.105(d)	Except as provided in paragraphs (b)(4) and (c) of this section, the provisions of subparts F, G, and H apply to chemical manufacturing process units that meet the criteria.	§ 63.103(b)(1) § 63.103(b)(3) § 63.103(b)(4) [G]§ 63.103(b)(5) § 63.103(b)(6) [G]§ 63.104(b)	[G]§ 63.103(c) [G]§ 63.104(e)(2) [G]§ 63.104(f)(1) [G]§ 63.105(b) § 63.105(c) § 63.105(e)	§ 63.103(b)(2) [G]§ 63.103(b)(5) [G]§ 63.103(d) [G]§ 63.104(f)(2)
SD022T114	EU	63G-0001	112(B) HAPS	40 CFR Part 63, Subpart G	§ 63.119(b) § 63.119(a)(1) [G]§ 63.119(b)(1) § 63.119(b)(2) § 63.119(b)(3)(iii) § 63.119(b)(4) § 63.119(b)(5)(i) § 63.119(b)(5)(ii) § 63.119(b)(5)(iii) § 63.119(b)(5)(iv) § 63.119(b)(5)(v) § 63.119(b)(5)(vi) § 63.119(b)(5)(vii) [G]§ 63.119(b)(5)(viii) § 63.119(b)(6) § 63.120(a)(4) § 63.120(a)(7)	Tanks using a fixed roof and an internal floating roof (defined in §63.111) to comply with §63.119(a)(1) must comply with: §63.119(b)(1)-(6).	§ 63.120(a)(3)(i) § 63.120(a)(3)(ii) § 63.120(a)(3)(iii)	§ 63.120(a)(4) § 63.123(a) § 63.123(c) § 63.123(g) [G]§ 63.152(a)	§ 63.120(a)(5) § 63.120(a)(6) § 63.122(d) § 63.122(d)(1)(ii) § 63.122(d)(1)(iii) § 63.122(d)(2)(ii) § 63.151(a)(7) [G]§ 63.151(b) [G]§ 63.151(j) [G]§ 63.152(a) § 63.152(b) [G]§ 63.152(b)(1) § 63.152(b)(4) § 63.152(c)(1) § 63.152(c)(2) § 63.152(c)(4)(ii)

Additional Monitoring Requirements

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: OX027T166	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart Kb	SOP Index No.: 60Kb-0001
Pollutant: VOC	Main Standard: [G]§ 60.112b(a)(3)
Monitoring Information	
Indicator: AVO inspection	
Minimum Frequency: Once per year	
Averaging Period: n/a	
Deviation Limit: Failure to conduct AVO inspections or failure to complete repairs if leaks are detected	
Periodic Monitoring Text: The permit holder shall initially measure and record fugitive emissions from the closed vent system (constructed of hard-piping) to the 40 CFR Part 63 (HON) fuel gas system in accordance with part 60, appendix A, method 21. A leak is indicated by an instrument reading of 500 parts per million by volume (ppmv) above background concentration. After the initial VOC measurement reading, the permit holder shall conduct a visible, audible, olfactory (AVO) inspection once per year to detect the presence of a leak. All AVO inspections shall be recorded. If a leak is detected, the permit holder shall complete repairs within 15 days unless it is technically infeasible or unsafe without a closed vent system shutdown or if the permit holder determines that emissions resulting from immediate repair would be greater than the emissions likely to result from delay of repair. Repair of such equipment shall be completed as soon as practical, but not later than the end of the next closed vent system shutdown. The first attempt at repair shall be made no later than 5 days after the leak is detected. Failure to conduct the annual AVO inspection or failure to complete repairs on the closed vent system shall be considered and reported as a deviation.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: OX027T166	
Control Device ID No.: C030B11	Control Device Type: Steam Generating Unit (Boiler)/Process Heater (Design heat input is greater than or equal to 44MW)
Control Device ID No.: C030B12	Control Device Type: Steam Generating Unit (Boiler)/Process Heater (Design heat input is greater than or equal to 44MW)
Control Device ID No.: C030B15	Control Device Type: Steam Generating Unit (Boiler)/Process Heater (Design heat input is greater than or equal to 44MW)
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart Kb	SOP Index No.: 60Kb-0001
Pollutant: VOC	Main Standard: [G]§ 60.112b(a)(3)
Monitoring Information	
Indicator: Period of Operation	
Minimum Frequency: n/a	
Averaging Period: n/a	
Deviation Limit: All periods when no boiler is operational shall be considered and reported as a deviation.	
Periodic Monitoring Text: Monitor and record the periods of operation of the steam generating units or process heater. All periods that are not recorded shall be considered and reported as a deviation. The records must be readily available for inspection.	

Permit Shield

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
OX004D12	N/A	40 CFR Part 60, Subpart NNN	Not constructed, modified, or reconstructed after 12/30/83.
OX004D12	N/A	40 CFR Part 63, Subpart G	Unit is not part of an affected CMPU.
OX004D22	N/A	40 CFR Part 60, Subpart NNN	Not constructed, modified, or reconstructed after 12/30/83.
OX004D22	N/A	40 CFR Part 63, Subpart G	Unit is not part of an affected CMPU.
OX004D57	N/A	40 CFR Part 60, Subpart NNN	Not constructed, modified, or reconstructed after 12/30/83.
OX004D57	N/A	40 CFR Part 63, Subpart G	Unit is not part of an affected CMPU.
OX004D58	N/A	40 CFR Part 60, Subpart NNN	Unit does not meet the definition of a distillation unit per §60.661.
OX004D58	N/A	40 CFR Part 63, Subpart G	Unit is not part of an affected CMPU.
OX004R1A	N/A	40 CFR Part 60, Subpart III	Not an air oxidation process.
OX004R1A	N/A	40 CFR Part 60, Subpart RRR	Not constructed, modified, or reconstructed after 6/29/90.
OX004R1A	N/A	40 CFR Part 63, Subpart G	Not a process vent; stream discharges to a fuel gas system.
OX004R1B	N/A	40 CFR Part 60, Subpart III	Not an air oxidation process.
OX004R1B	N/A	40 CFR Part 60, Subpart RRR	Not constructed, modified, or reconstructed after 6/29/90.
OX004R1B	N/A	40 CFR Part 63, Subpart G	Unit is not part of an affected CMPU.
OX004R1C	N/A	40 CFR Part 60, Subpart III	Not an air oxidation process.
OX004R1C	N/A	40 CFR Part 60, Subpart RRR	Not constructed, modified, or reconstructed after 6/29/90.
OX004R1C	N/A	40 CFR Part 63, Subpart G	Unit is not part of an affected CMPU.
OX004R1D	N/A	40 CFR Part 60, Subpart III	Not an air oxidation process.
OX004R1D	N/A	40 CFR Part 60, Subpart RRR	Not constructed, modified, or reconstructed after 6/29/90.

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
OX004R1D	N/A	40 CFR Part 63, Subpart G	Unit is not part of an affected CMPU.
OX004R1E	N/A	40 CFR Part 60, Subpart III	Not an air oxidation process.
OX004R1E	N/A	40 CFR Part 63, Subpart G	Unit is not part of an affected CMPU.
OX004T279	N/A	40 CFR Part 60, Subpart K	Does not store a petroleum liquid.
OX004T279	N/A	40 CFR Part 61, Subpart FF	Not used to manage a benzene containing waste stream.
OX004T279	N/A	40 CFR Part 61, Subpart Y	Unit does not store refined or industrial grade benzene.
OX004T279	N/A	40 CFR Part 63, Subpart FFFF	Not part of an affected MCPU.
OX004T279	N/A	40 CFR Part 63, Subpart G	Unit is not part of an affected CMPU.
OX004T279	N/A	40 CFR Part 63, Subpart YY	Not part of an ethylene production unit.
OX004T290	N/A	40 CFR Part 60, Subpart K	Does not store a petroleum liquid.
OX004T290	N/A	40 CFR Part 61, Subpart FF	Not used to manage a benzene containing waste stream.
OX004T290	N/A	40 CFR Part 61, Subpart Y	Unit does not store refined or industrial grade benzene.
OX004T290	N/A	40 CFR Part 63, Subpart FFFF	Not part of an affected MCPU.
OX004T290	N/A	40 CFR Part 63, Subpart G	Unit is not part of an affected CMPU.
OX004T290	N/A	40 CFR Part 63, Subpart YY	Not part of an ethylene production unit.
OX004T304	N/A	40 CFR Part 60, Subpart K	Does not store a petroleum liquid.
OX004T304	N/A	40 CFR Part 61, Subpart FF	Not used to manage a benzene containing waste stream.
OX004T304	N/A	40 CFR Part 61, Subpart Y	Unit does not store refined or industrial grade benzene.
OX004T304	N/A	40 CFR Part 63, Subpart FFFF	Not part of an affected MCPU.
OX004T304	N/A	40 CFR Part 63, Subpart G	Unit is not part of an affected CMPU.

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
OX004T304	N/A	40 CFR Part 63, Subpart YY	Not part of an ethylene production unit.
OX005FL2	N/A	40 CFR Part 60, Subpart A	Not used to comply with Part 60 or 61 standards.
OX005FL2	N/A	40 CFR Part 63, Subpart A	Not required by relevant Part 63 standards.
OX005WW1	N/A	40 CFR Part 63, Subpart FFFF	Group 2 wastewater stream is an affected source subject to 40 CFR Part 63, Subpart G and is not a batch process vent.
OX005WW2	N/A	40 CFR Part 63, Subpart G	Unit is not part of an affected CMPU.
OX022T113	N/A	40 CFR Part 60, Subpart K	Does not store a petroleum liquid
OX022T113	N/A	40 CFR Part 61, Subpart FF	Not used to manage a benzene containing waste stream.
OX022T113	N/A	40 CFR Part 61, Subpart Y	Unit does not store refined or industrial grade benzene.
OX022T113	N/A	40 CFR Part 63, Subpart FFFF	Not part of an affected MCPU.
OX022T113	N/A	40 CFR Part 63, Subpart YY	Not part of an ethylene production unit.
OX026T148	N/A	40 CFR Part 60, Subpart K	Does not store a petroleum liquid
OX026T148	N/A	40 CFR Part 61, Subpart FF	Not used to manage a benzene containing waste stream.
OX026T148	N/A	40 CFR Part 61, Subpart Y	Unit does not store refined or industrial grade benzene.
OX026T148	N/A	40 CFR Part 63, Subpart FFFF	Not part of an affected MCPU.
OX026T148	N/A	40 CFR Part 63, Subpart YY	Not part of an ethylene production unit.
OX026T153	N/A	40 CFR Part 60, Subpart K	Does not store a petroleum liquid.
OX026T153	N/A	40 CFR Part 61, Subpart FF	Not used to manage a benzene containing waste stream.
OX026T153	N/A	40 CFR Part 61, Subpart Y	Unit does not store refined or industrial grade benzene.
OX026T153	N/A	40 CFR Part 63, Subpart FFFF	Not part of an affected MCPU.

Permit Shield

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Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
OX026T153	N/A	40 CFR Part 63, Subpart G	Unit is not part of an affected CMPU.
OX026T153	N/A	40 CFR Part 63, Subpart YY	Not part of an ethylene production unit.
OX026T154	N/A	40 CFR Part 60, Subpart K	Does not store a petroleum liquid.
OX026T154	N/A	40 CFR Part 61, Subpart FF	Not used to manage a benzene containing waste stream.
OX026T154	N/A	40 CFR Part 61, Subpart Y	Unit does not store refined or industrial grade benzene.
OX026T154	N/A	40 CFR Part 63, Subpart FFFF	Not part of an affected MCPU.
OX026T154	N/A	40 CFR Part 63, Subpart G	Unit is not part of an affected CMPU.
OX026T154	N/A	40 CFR Part 63, Subpart YY	Not part of an ethylene production unit.
OX026T155	N/A	40 CFR Part 60, Subpart K	Does not store a petroleum liquid.
OX026T155	N/A	40 CFR Part 61, Subpart FF	Not used to manage a benzene containing waste stream.
OX026T155	N/A	40 CFR Part 61, Subpart Y	Unit does not store refined or industrial grade benzene.
OX026T155	N/A	40 CFR Part 63, Subpart FFFF	Not part of an affected MCPU.
OX026T155	N/A	40 CFR Part 63, Subpart G	Unit is not part of an affected CMPU.
OX026T155	N/A	40 CFR Part 63, Subpart YY	Not part of an ethylene production unit.
OX026T162	N/A	40 CFR Part 60, Subpart K	Does not store a petroleum liquid
OX026T162	N/A	40 CFR Part 61, Subpart FF	Not used to manage a benzene containing waste stream.
OX026T162	N/A	40 CFR Part 61, Subpart Y	Unit does not store refined or industrial grade benzene.
OX026T162	N/A	40 CFR Part 63, Subpart FFFF	Not part of an affected MCPU.
OX026T162	N/A	40 CFR Part 63, Subpart YY	Not part of an ethylene production unit.
OX026T163	N/A	40 CFR Part 60, Subpart K	Unit does not store a petroleum liquid.

Permit Shield

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Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
OX026T163	N/A	40 CFR Part 61, Subpart FF	Not used to manage a benzene containing waste stream.
OX026T163	N/A	40 CFR Part 61, Subpart Y	Unit does not store refined or industrial grade benzene.
OX026T163	N/A	40 CFR Part 63, Subpart FFFF	Not part of an affected MCPU.
OX026T163	N/A	40 CFR Part 63, Subpart G	Unit is not part of an affected CMPU.
OX026T163	N/A	40 CFR Part 63, Subpart YY	Not part of an ethylene production unit.
OX026T164	N/A	40 CFR Part 60, Subpart Ka	Does not store a petroleum liquid.
OX026T164	N/A	40 CFR Part 61, Subpart FF	Not used to manage a benzene containing waste stream.
OX026T164	N/A	40 CFR Part 61, Subpart Y	Unit does not store refined or industrial grade benzene.
OX026T164	N/A	40 CFR Part 63, Subpart FFFF	Not part of an affected MCPU.
OX026T164	N/A	40 CFR Part 63, Subpart G	Unit is not part of an affected CMPU.
OX026T164	N/A	40 CFR Part 63, Subpart YY	Not part of an ethylene production unit.
OX026T165	N/A	40 CFR Part 60, Subpart Ka	Does not store a petroleum liquid.
OX026T165	N/A	40 CFR Part 61, Subpart FF	Not used to manage a benzene containing waste stream.
OX026T165	N/A	40 CFR Part 61, Subpart Y	Unit does not store refined or industrial grade benzene.
OX026T165	N/A	40 CFR Part 63, Subpart FFFF	Not part of an affected MCPU.
OX026T165	N/A	40 CFR Part 63, Subpart G	Unit is not part of an affected CMPU.
OX026T165	N/A	40 CFR Part 63, Subpart YY	Not part of an ethylene production unit.
OX026T194	N/A	40 CFR Part 60, Subpart K	Does not store a petroleum liquid.
OX026T194	N/A	40 CFR Part 61, Subpart FF	Not used to manage a benzene containing waste stream.
OX026T194	N/A	40 CFR Part 61, Subpart Y	Unit does not store refined or industrial grade benzene.

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
OX026T194	N/A	40 CFR Part 63, Subpart FFFF	Not part of an affected MCPU.
OX026T194	N/A	40 CFR Part 63, Subpart YY	Not part of an ethylene production unit.
OX026T302	N/A	40 CFR Part 60, Subpart K	Does not store a petroleum liquid.
OX026T302	N/A	40 CFR Part 61, Subpart FF	Not used to manage a benzene containing waste stream.
OX026T302	N/A	40 CFR Part 61, Subpart Y	Unit does not store refined or industrial grade benzene.
OX026T302	N/A	40 CFR Part 63, Subpart FFFF	Not part of an affected MCPU.
OX026T302	N/A	40 CFR Part 63, Subpart G	Not part of an affected CMPU.
OX026T302	N/A	40 CFR Part 63, Subpart YY	Not part of an ethylene production unit.
OX026T303	N/A	40 CFR Part 60, Subpart K	Does not store a petroleum liquid.
OX026T303	N/A	40 CFR Part 61, Subpart FF	Not used to manage a benzene containing waste stream.
OX026T303	N/A	40 CFR Part 61, Subpart Y	Unit does not store refined or industrial grade benzene.
OX026T303	N/A	40 CFR Part 63, Subpart FFFF	Not part of an affected MCPU.
OX026T303	N/A	40 CFR Part 63, Subpart YY	Not part of an ethylene production unit.
OX026T32	N/A	40 CFR Part 60, Subpart K	Does not store a petroleum liquid
OX026T32	N/A	40 CFR Part 61, Subpart FF	Not used to manage a benzene containing waste stream.
OX026T32	N/A	40 CFR Part 61, Subpart Y	Unit does not store refined or industrial grade benzene.
OX026T32	N/A	40 CFR Part 63, Subpart FFFF	Not part of an affected MCPU.
OX026T32	N/A	40 CFR Part 63, Subpart YY	Not part of an ethylene production unit.
OX026T33	N/A	40 CFR Part 60, Subpart K	Does not store a petroleum liquid.
OX026T33	N/A	40 CFR Part 61, Subpart FF	Not used to manage a benzene containing waste stream.

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
OX026T33	N/A	40 CFR Part 61, Subpart Y	Unit does not store refined or industrial grade benzene.
OX026T33	N/A	40 CFR Part 63, Subpart FFFF	Not part of an affected MCPU.
OX026T33	N/A	40 CFR Part 63, Subpart G	Unit is not part of an affected CMPU.
OX026T33	N/A	40 CFR Part 63, Subpart YY	Not part of an ethylene production unit.
OX026T35	N/A	40 CFR Part 60, Subpart K	Does not store a petroleum liquid
OX026T35	N/A	40 CFR Part 61, Subpart FF	Not used to manage a benzene containing waste stream.
OX026T35	N/A	40 CFR Part 61, Subpart Y	Unit does not store refined or industrial grade benzene.
OX026T35	N/A	40 CFR Part 63, Subpart FFFF	Not part of an affected MCPU.
OX026T35	N/A	40 CFR Part 63, Subpart YY	Not part of an ethylene production unit.
OX027FL1	N/A	40 CFR Part 60, Subpart A	Not used to comply with Part 60 or 61 standards.
OX027T166	N/A	40 CFR Part 61, Subpart FF	Not used to manage a benzene containing waste stream.
OX027T166	N/A	40 CFR Part 61, Subpart Y	Unit does not store refined or industrial grade benzene.
OX027T166	N/A	40 CFR Part 63, Subpart FFFF	Not part of an affected MCPU.
OX027T166	N/A	40 CFR Part 63, Subpart G	Unit is not part of an affected CMPU.
OX027T166	N/A	40 CFR Part 63, Subpart YY	Not part of an ethylene production unit.
OX027T167	N/A	40 CFR Part 60, Subpart Kb	Unit storage capacity is less than 75 cubic meters.
OX027T167	N/A	40 CFR Part 61, Subpart FF	Not used to manage a benzene containing waste stream.
OX027T167	N/A	40 CFR Part 61, Subpart Y	Unit does not store refined or industrial grade benzene.
OX027T167	N/A	40 CFR Part 63, Subpart FFFF	Not part of an affected MCPU.
OX027T167	N/A	40 CFR Part 63, Subpart G	Storage vessel does not store any HAPs.

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
OX027T167	N/A	40 CFR Part 63, Subpart YY	Not part of an ethylene production unit.
OX027T414	N/A	40 CFR Part 60, Subpart K	Does not store a petroleum liquid.
OX027T414	N/A	40 CFR Part 61, Subpart FF	Not used to manage a benzene containing waste stream.
OX027T414	N/A	40 CFR Part 61, Subpart Y	Unit does not store refined or industrial grade benzene.
OX027T414	N/A	40 CFR Part 63, Subpart FFFF	Not part of an affected MCPU.
OX027T414	N/A	40 CFR Part 63, Subpart G	Unit is not part of an affected CMPU.
OX027T414	N/A	40 CFR Part 63, Subpart YY	Not part of an ethylene production unit.
OX027T415	N/A	40 CFR Part 60, Subpart K	Does not store a petroleum liquid.
OX027T415	N/A	40 CFR Part 61, Subpart FF	Not used to manage a benzene containing waste stream.
OX027T415	N/A	40 CFR Part 61, Subpart Y	Unit does not store refined or industrial grade benzene.
OX027T415	N/A	40 CFR Part 63, Subpart FFFF	Not part of an affected MCPU.
OX027T415	N/A	40 CFR Part 63, Subpart G	Unit is not part of an affected CMPU.
OX027T415	N/A	40 CFR Part 63, Subpart YY	Not part of an ethylene production unit.
OX027T416	N/A	40 CFR Part 60, Subpart K	Does not store a petroleum liquid.
OX027T416	N/A	40 CFR Part 61, Subpart FF	Not used to manage a benzene containing waste stream.
OX027T416	N/A	40 CFR Part 61, Subpart Y	Unit does not store refined or industrial grade benzene.
OX027T416	N/A	40 CFR Part 63, Subpart FFFF	Not part of an affected MCPU.
OX027T416	N/A	40 CFR Part 63, Subpart G	Unit is not part of an affected CMPU.
OX027T416	N/A	40 CFR Part 63, Subpart YY	Not part of an ethylene production unit.
OX027T417	N/A	40 CFR Part 60, Subpart K	Does not store a petroleum liquid.

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
OX027T417	N/A	40 CFR Part 61, Subpart FF	Not used to manage a benzene containing waste stream.
OX027T417	N/A	40 CFR Part 61, Subpart Y	Unit does not store refined or industrial grade benzene.
OX027T417	N/A	40 CFR Part 63, Subpart FFFF	Not part of an affected MCPU.
OX027T417	N/A	40 CFR Part 63, Subpart G	Unit is not part of an affected CMPU.
OX027T417	N/A	40 CFR Part 63, Subpart YY	Not part of an ethylene production unit.
OX050T146	N/A	40 CFR Part 60, Subpart K	Does not store a petroleum liquid.
OX050T146	N/A	40 CFR Part 61, Subpart FF	Not used to manage a benzene containing waste stream.
OX050T146	N/A	40 CFR Part 61, Subpart Y	Unit does not store refined or industrial grade benzene.
OX050T146	N/A	40 CFR Part 63, Subpart FFFF	Not part of an affected MCPU.
OX050T146	N/A	40 CFR Part 63, Subpart G	Unit is not part of an affected CMPU.
OX050T146	N/A	40 CFR Part 63, Subpart YY	Not part of an ethylene production unit.
OX050T147	N/A	40 CFR Part 60, Subpart K	Does not store a petroleum liquid.
OX050T147	N/A	40 CFR Part 61, Subpart FF	Not used to manage a benzene containing waste stream.
OX050T147	N/A	40 CFR Part 61, Subpart Y	Unit does not store refined or industrial grade benzene.
OX050T147	N/A	40 CFR Part 63, Subpart FFFF	Not part of an affected MCPU.
OX050T147	N/A	40 CFR Part 63, Subpart G	Unit is not part of an affected CMPU.
OX050T147	N/A	40 CFR Part 63, Subpart YY	Not part of an ethylene production unit.
OX050T400	N/A	40 CFR Part 60, Subpart K	Does not store a petroleum liquid.
OX050T400	N/A	40 CFR Part 61, Subpart FF	Not used to manage a benzene containing waste stream.
OX050T400	N/A	40 CFR Part 61, Subpart Y	Unit does not store refined or industrial grade benzene.

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
OX050T400	N/A	40 CFR Part 63, Subpart FFFF	Not part of an affected MCPU.
OX050T400	N/A	40 CFR Part 63, Subpart G	Unit is not part of an affected CMPU.
OX050T400	N/A	40 CFR Part 63, Subpart YY	Not part of an ethylene production unit.
OX050T412	N/A	40 CFR Part 60, Subpart K	Does not store a petroleum liquid.
OX050T412	N/A	40 CFR Part 61, Subpart FF	Not used to manage a benzene containing waste stream.
OX050T412	N/A	40 CFR Part 61, Subpart Y	Unit does not store refined or industrial grade benzene.
OX050T412	N/A	40 CFR Part 63, Subpart FFFF	Not part of an affected MCPU.
OX050T412	N/A	40 CFR Part 63, Subpart G	Unit is not part of an affected CMPU.
OX050T412	N/A	40 CFR Part 63, Subpart YY	Not part of an ethylene production unit.
OX050T421	N/A	40 CFR Part 60, Subpart K	Does not store a petroleum liquid
OX050T421	N/A	40 CFR Part 61, Subpart Y	Unit does not store refined or industrial grade benzene.
OX050T421	N/A	40 CFR Part 61, Subpart FF	Not used to manage a benzene containing waste stream.
OX050T421	N/A	40 CFR Part 63, Subpart FFFF	Not part of an affected MCPU.
OX050T421	N/A	40 CFR Part 63, Subpart YY	Not part of an ethylene production unit.
OX053D10	N/A	40 CFR Part 60, Subpart NNN	Not constructed, modified, or reconstructed after 12/30/83.
OX053D10	N/A	40 CFR Part 63, Subpart G	Unit does not have a process vent; stream discharges to a fuel gas system.
OX053D11	N/A	40 CFR Part 60, Subpart NNN	Not constructed, modified, or reconstructed after 12/30/83.
OX053D11	N/A	40 CFR Part 63, Subpart G	Unit does not have a process vent; stream discharges to a fuel gas system.
OX053D11S	N/A	40 CFR Part 60, Subpart NNN	Not constructed, modified, or reconstructed after 12/30/83.

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
OX053D11S	N/A	40 CFR Part 63, Subpart G	Unit does not have a process vent; gas stream does not originate from a distillation unit (as defined in §63.101).
OX053D12S	N/A	40 CFR Part 60, Subpart NNN	Not constructed, modified, or reconstructed after 12/30/83.
OX053D12S	N/A	40 CFR Part 63, Subpart G	Unit does not have a process vent; gas stream does not originate from a distillation unit (as defined in §63.101).
OX053D13	N/A	40 CFR Part 60, Subpart NNN	Not constructed, modified, or reconstructed after 12/30/83.
OX053D13	N/A	40 CFR Part 63, Subpart G	Unit is not part of an affected CMPU.
OX053D13A	N/A	40 CFR Part 60, Subpart NNN	Not constructed, modified, or reconstructed after 12/30/83.
OX053D13A	N/A	40 CFR Part 63, Subpart G	Unit is not part of an affected CMPU.
OX053D15A	N/A	40 CFR Part 60, Subpart NNN	Not constructed, modified, or reconstructed after 12/30/83.
OX053D15A	N/A	40 CFR Part 63, Subpart G	Unit is not part of an affected CMPU.
OX053D16	N/A	40 CFR Part 60, Subpart NNN	Unit does not meet the definition of a distillation unit per §60.661.
OX053D16	N/A	40 CFR Part 63, Subpart G	Not a process vent; stream discharges to a fuel gas system.
OX053D17	N/A	40 CFR Part 60, Subpart NNN	Not constructed, modified, or reconstructed after 12/30/83.
OX053D17	N/A	40 CFR Part 63, Subpart G	Unit is not part of an affected CMPU.
OX053D17S	N/A	40 CFR Part 60, Subpart NNN	Not constructed, modified, or reconstructed after 12/30/83.
OX053D17S	N/A	40 CFR Part 63, Subpart G	Unit does not have a process vent; gas stream does not originate from a distillation unit (as defined in §63.101).
OX053D18	N/A	40 CFR Part 60, Subpart NNN	Unit does not meet the definition of a distillation unit per §60.661.

Permit Shield

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Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
OX053D18	N/A	40 CFR Part 63, Subpart G	Unit does not have a process vent; gas stream does not originate from a distillation unit (as defined in §63.101).
OX053D19	N/A	40 CFR Part 60, Subpart NNN	Not constructed, modified, or reconstructed after 12/30/83.
OX053D19	N/A	40 CFR Part 63, Subpart G	Unit is not part of an affected CMPU.
OX053D2	N/A	40 CFR Part 60, Subpart NNN	Not constructed, modified, or reconstructed after 12/30/83.
OX053D2	N/A	40 CFR Part 63, Subpart G	Unit is not part of an affected CMPU.
OX053D20	N/A	40 CFR Part 60, Subpart NNN	Unit does not meet the definition of a distillation unit per §60.661.
OX053D21	N/A	40 CFR Part 60, Subpart NNN	Not constructed, modified, or reconstructed after 12/30/83.
OX053D21	N/A	40 CFR Part 63, Subpart G	Unit is not part of an affected CMPU.
OX053D30	N/A	40 CFR Part 60, Subpart NNN	Not constructed, modified, or reconstructed after 12/30/83.
OX053D30	N/A	40 CFR Part 63, Subpart G	Unit is not part of an affected CMPU.
OX053D31	N/A	40 CFR Part 60, Subpart NNN	Not constructed, modified, or reconstructed after 12/30/83.
OX053D31	N/A	40 CFR Part 63, Subpart G	Unit is not part of an affected CMPU.
OX053D35	N/A	40 CFR Part 60, Subpart NNN	Not constructed, modified, or reconstructed after 12/30/83.
OX053D35	N/A	40 CFR Part 63, Subpart G	Unit is not part of an affected CMPU.
OX053D3A	N/A	40 CFR Part 60, Subpart NNN	Not constructed, modified, or reconstructed after 12/30/83.
OX053D3A	N/A	40 CFR Part 63, Subpart G	Unit is not part of an affected CMPU.
OX053D4R	N/A	40 CFR Part 60, Subpart NNN	Not constructed, modified, or reconstructed after 12/30/83.
OX053D4R	N/A	40 CFR Part 63, Subpart G	Unit is not part of an affected CMPU.
OX053D5A	N/A	40 CFR Part 60, Subpart NNN	Not constructed, modified, or reconstructed after 12/30/83.

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
OX053D5A	N/A	40 CFR Part 63, Subpart G	Unit is not part of an affected CMPU.
OX053D7A	N/A	40 CFR Part 60, Subpart NNN	Not constructed, modified, or reconstructed after 12/30/83.
OX053D7A	N/A	40 CFR Part 63, Subpart G	Unit is not part of an affected CMPU.
OX053D8	N/A	40 CFR Part 60, Subpart NNN	Not constructed, modified, or reconstructed after 12/30/83.
OX053D8	N/A	40 CFR Part 63, Subpart G	Unit is not part of an affected CMPU.
OX053D9	N/A	40 CFR Part 60, Subpart NNN	Not constructed, modified, or reconstructed after 12/30/83.
OX053D9	N/A	40 CFR Part 63, Subpart G	Unit is not part of an affected CMPU.
OX053FG1	N/A	40 CFR Part 60, Subpart VV	Affected sources not constructed, modified, or reconstructed after 01/05/81.
OX053FG1	N/A	40 CFR Part 61, Subpart J	Affected sources do not have sources in benzene service.
OX053FG1	N/A	40 CFR Part 61, Subpart V	Affected sources do not have sources in VHAP service.
OX053FG7	N/A	40 CFR Part 60, Subpart VV	Not an affected facility in the SOCMI per §60.489 list.
OX053FG7	N/A	40 CFR Part 61, Subpart J	Affected sources do not have sources in benzene service.
OX053FG7	N/A	40 CFR Part 61, Subpart V	Affected sources do not have sources in VHAP service.
OX053FG7	N/A	40 CFR Part 63, Subpart H	Not part of an affected CMPU.
OX053H1	N/A	40 CFR Part 63, Subpart DDDDD	Unit is a temporary boiler as defined in §63.7575.
OX053R600	N/A	40 CFR Part 60, Subpart III	Not an air oxidation process.
OX053R600	N/A	40 CFR Part 60, Subpart RRR	Process unit does not produce a chemical listed on §60.707.
OX053R600	N/A	40 CFR Part 63, Subpart FFFF	Process unit produces carbon monoxide.
OX053R600	N/A	40 CFR Part 63, Subpart G	Unit is not part of an affected CMPU.

Permit Shield

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Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
OX053T10	N/A	40 CFR Part 60, Subpart K	Does not store a petroleum liquid.
OX053T10	N/A	40 CFR Part 61, Subpart FF	Not used to manage a benzene containing waste stream.
OX053T10	N/A	40 CFR Part 61, Subpart Y	Unit does not store refined or industrial grade benzene.
OX053T10	N/A	40 CFR Part 63, Subpart FFFF	Not part of an affected MCPU.
OX053T10	N/A	40 CFR Part 63, Subpart G	Unit is not part of an affected CMPU.
OX053T10	N/A	40 CFR Part 63, Subpart YY	Not part of an ethylene production unit.
OX053T245	N/A	40 CFR Part 60, Subpart K	Unit does not store a petroleum liquid.
OX053T245	N/A	40 CFR Part 61, Subpart FF	Not used to manage a benzene containing waste stream.
OX053T245	N/A	40 CFR Part 61, Subpart Y	Unit does not store refined or industrial grade benzene.
OX053T245	N/A	40 CFR Part 63, Subpart FFFF	Not part of an affected MCPU.
OX053T245	N/A	40 CFR Part 63, Subpart YY	Not part of an ethylene production unit.
OX053T28	N/A	40 CFR Part 60, Subpart K	Unit does not store a petroleum liquid.
OX053T28	N/A	40 CFR Part 61, Subpart FF	Not used to manage a benzene containing waste stream.
OX053T28	N/A	40 CFR Part 61, Subpart Y	Unit does not store refined or industrial grade benzene.
OX053T28	N/A	40 CFR Part 63, Subpart FFFF	Not part of an affected MCPU.
OX053T28	N/A	40 CFR Part 63, Subpart YY	Not part of an ethylene production unit.
OX053T304	N/A	40 CFR Part 60, Subpart K	Does not store a petroleum liquid.
OX053T304	N/A	40 CFR Part 61, Subpart FF	Not used to manage a benzene containing waste stream.
OX053T304	N/A	40 CFR Part 61, Subpart Y	Unit does not store refined or industrial grade benzene.
OX053T304	N/A	40 CFR Part 63, Subpart FFFF	Not part of an affected MCPU.

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
OX053T304	N/A	40 CFR Part 63, Subpart G	Unit is not part of an affected CMPU.
OX053T304	N/A	40 CFR Part 63, Subpart YY	Not part of an ethylene production unit.
OX053T313	N/A	40 CFR Part 60, Subpart Kb	Unit storage capacity is less than 75 cubic meters.
OX053T313	N/A	40 CFR Part 61, Subpart FF	Not used to manage a benzene containing waste stream.
OX053T313	N/A	40 CFR Part 61, Subpart Y	Unit does not store refined or industrial grade benzene.
OX053T313	N/A	40 CFR Part 63, Subpart FFFF	Not part of an affected MCPU.
OX053T313	N/A	40 CFR Part 63, Subpart G	Unit is not part of an affected CMPU.
OX053T313	N/A	40 CFR Part 63, Subpart YY	Not part of an ethylene production unit.
OX053T322	N/A	40 CFR Part 60, Subpart Ka	Does not store a petroleum liquid.
OX053T322	N/A	40 CFR Part 61, Subpart FF	Not used to manage a benzene containing waste stream.
OX053T322	N/A	40 CFR Part 61, Subpart Y	Unit does not store refined or industrial grade benzene.
OX053T322	N/A	40 CFR Part 63, Subpart FFFF	Not part of an affected MCPU.
OX053T322	N/A	40 CFR Part 63, Subpart G	Not a HON storage vessel.
OX053T322	N/A	40 CFR Part 63, Subpart YY	Not part of an ethylene production unit.
OX053T501	N/A	40 CFR Part 60, Subpart Kb	Unit storage capacity is less than 75 cubic meters.
OX053T501	N/A	40 CFR Part 61, Subpart FF	Not used to manage a benzene containing waste stream.
OX053T501	N/A	40 CFR Part 61, Subpart Y	Unit does not store refined or industrial grade benzene.
OX053T501	N/A	40 CFR Part 63, Subpart FFFF	Not part of an affected MCPU.
OX053T501	N/A	40 CFR Part 63, Subpart G	Unit is not part of an affected CMPU.
OX053T501	N/A	40 CFR Part 63, Subpart YY	Not part of an ethylene production unit.

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
OX053T502	N/A	40 CFR Part 60, Subpart Kb	Unit storage capacity is less than 75 cubic meters.
OX053T502	N/A	40 CFR Part 61, Subpart FF	Not used to manage a benzene containing waste stream.
OX053T502	N/A	40 CFR Part 61, Subpart Y	Does not store refined benzene.
OX053T502	N/A	40 CFR Part 63, Subpart FFFF	Not part of an affected MCPU.
OX053T502	N/A	40 CFR Part 63, Subpart YY	Not part of an ethylene production unit.
OX053T503	N/A	40 CFR Part 60, Subpart Kb	Unit storage capacity is less than 75 cubic meters.
OX053T503	N/A	40 CFR Part 61, Subpart FF	Not used to manage a benzene containing waste stream.
OX053T503	N/A	40 CFR Part 61, Subpart Y	Unit does not store refined or industrial grade benzene.
OX053T503	N/A	40 CFR Part 63, Subpart FFFF	Not part of an affected MCPU.
OX053T503	N/A	40 CFR Part 63, Subpart G	Unit is not part of an affected CMPU.
OX053T503	N/A	40 CFR Part 63, Subpart YY	Not part of an ethylene production unit.
OX053T504	N/A	40 CFR Part 60, Subpart Kb	Unit storage capacity is less than 75 cubic meters.
OX053T504	N/A	40 CFR Part 61, Subpart FF	Not used to manage a benzene containing waste stream.
OX053T504	N/A	40 CFR Part 61, Subpart Y	Unit does not store refined or industrial grade benzene.
OX053T504	N/A	40 CFR Part 63, Subpart FFFF	Not part of an affected MCPU.
OX053T504	N/A	40 CFR Part 63, Subpart G	Unit is not part of an affected CMPU.
OX053T504	N/A	40 CFR Part 63, Subpart YY	Not part of an ethylene production unit.
OX053T505	N/A	40 CFR Part 60, Subpart Kb	Unit storage capacity is less than 75 cubic meters.
OX053T505	N/A	40 CFR Part 61, Subpart FF	Not used to manage a benzene containing waste stream.
OX053T505	N/A	40 CFR Part 61, Subpart Y	Unit does not store refined or industrial grade benzene.

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
OX053T505	N/A	40 CFR Part 63, Subpart FFFF	Not part of an affected MCPU.
OX053T505	N/A	40 CFR Part 63, Subpart G	Unit is not part of an affected CMPU.
OX053T505	N/A	40 CFR Part 63, Subpart YY	Not part of an ethylene production unit.
OX053T509	N/A	40 CFR Part 60, Subpart Kb	Unit storage capacity is less than 75 cubic meters.
OX053T509	N/A	40 CFR Part 61, Subpart FF	Not used to manage a benzene containing waste stream.
OX053T509	N/A	40 CFR Part 61, Subpart Y	Unit does not store refined or industrial grade benzene.
OX053T509	N/A	40 CFR Part 63, Subpart FFFF	Not part of an affected MCPU.
OX053T509	N/A	40 CFR Part 63, Subpart G	Unit is not part of an affected CMPU.
OX053T509	N/A	40 CFR Part 63, Subpart YY	Not part of an ethylene production unit.
OX053T605	N/A	40 CFR Part 60, Subpart Kb	Unit storage capacity is less than 75 cubic meters.
OX053T605	N/A	40 CFR Part 61, Subpart FF	Not used to manage a benzene containing waste stream.
OX053T605	N/A	40 CFR Part 61, Subpart Y	Unit does not store refined or industrial grade benzene.
OX053T605	N/A	40 CFR Part 63, Subpart FFFF	Not part of an affected MCPU.
OX053T605	N/A	40 CFR Part 63, Subpart G	Unit is not part of an affected CMPU.
OX053T605	N/A	40 CFR Part 63, Subpart YY	Not part of an ethylene production unit.
OX053T71	N/A	40 CFR Part 60, Subpart Kb	Unit storage capacity is less than 75 cubic meters.
OX053T71	N/A	40 CFR Part 61, Subpart FF	Not used to manage a benzene containing waste stream.
OX053T71	N/A	40 CFR Part 61, Subpart Y	Unit does not store refined or industrial grade benzene.
OX053T71	N/A	40 CFR Part 63, Subpart FFFF	Not part of an affected MCPU.
OX053T71	N/A	40 CFR Part 63, Subpart G	Unit is not part of an affected CMPU.

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
OX053T71	N/A	40 CFR Part 63, Subpart YY	Not part of an ethylene production unit.
OX053WW4	N/A	40 CFR Part 63, Subpart G	Design steam stripper bottoms are not residuals from treatment of a Group 1 wastewater stream.
OX053WW7	N/A	40 CFR Part 63, Subpart G	Unit is not part of an affected CMPU.
PROOXOALD	N/A	40 CFR Part 63, Subpart FFFF	Process is subject to Part 63 Subpart F and does not include any process vents as identified in §63.100(j)(4).
PROPOX	N/A	40 CFR Part 63, Subpart F	Not an affected CMPU.
PROPOX	N/A	40 CFR Part 63, Subpart FFFF	Carbon monoxide production processes are not subject to Subpart FFFF.
SD022T109	N/A	40 CFR Part 60, Subpart K	Does not store a petroleum liquid.
SD022T109	N/A	40 CFR Part 61, Subpart FF	Not used to manage a benzene containing waste stream.
SD022T109	N/A	40 CFR Part 61, Subpart Y	Unit does not store refined or industrial grade benzene.
SD022T109	N/A	40 CFR Part 63, Subpart FFFF	Not part of an affected MCPU.
SD022T109	N/A	40 CFR Part 63, Subpart G	Unit is not part of an affected CMPU.
SD022T109	N/A	40 CFR Part 63, Subpart YY	Not part of an ethylene production unit.
SD022T114	N/A	40 CFR Part 60, Subpart K	Does not store a petroleum liquid
SD022T114	N/A	40 CFR Part 61, Subpart FF	Not used to manage a benzene containing waste stream.
SD022T114	N/A	40 CFR Part 61, Subpart Y	Unit does not store refined or industrial grade benzene.
SD022T114	N/A	40 CFR Part 63, Subpart FFFF	Not part of an affected MCPU.
SD022T114	N/A	40 CFR Part 63, Subpart YY	Not part of an ethylene production unit
SD023T135	N/A	40 CFR Part 60, Subpart K	Does not store a petroleum liquid.

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
SD023T135	N/A	40 CFR Part 61, Subpart FF	Not used to manage a benzene containing waste stream.
SD023T135	N/A	40 CFR Part 61, Subpart Y	Unit does not store refined or industrial grade benzene.
SD023T135	N/A	40 CFR Part 63, Subpart FFFF	Not part of an affected MCPU.
SD023T135	N/A	40 CFR Part 63, Subpart G	Unit is not part of an affected CMPU.
SD023T135	N/A	40 CFR Part 63, Subpart YY	Not part of an ethylene production unit.
SD100T33	N/A	40 CFR Part 60, Subpart Ka	Does not store a petroleum liquid.
SD100T33	N/A	40 CFR Part 61, Subpart FF	Not used to manage a benzene containing waste stream.
SD100T33	N/A	40 CFR Part 61, Subpart Y	Unit does not store refined or industrial grade benzene.
SD100T33	N/A	40 CFR Part 63, Subpart FFFF	Not part of an affected MCPU.
SD100T33	N/A	40 CFR Part 63, Subpart G	Unit is not part of an affected CMPU.
SD100T33	N/A	40 CFR Part 63, Subpart YY	Not part of an ethylene production unit.
SD100T34	N/A	40 CFR Part 60, Subpart Ka	Does not store a petroleum liquid.
SD100T34	N/A	40 CFR Part 61, Subpart FF	Not used to manage a benzene containing waste stream.
SD100T34	N/A	40 CFR Part 61, Subpart Y	Unit does not store refined or industrial grade benzene.
SD100T34	N/A	40 CFR Part 63, Subpart FFFF	Not part of an affected MCPU.
SD100T34	N/A	40 CFR Part 63, Subpart G	Unit is not part of an affected CMPU.
SD100T34	N/A	40 CFR Part 63, Subpart YY	Not part of an ethylene production unit.

New Source Review Authorization References

New Source Review Authorization References

The New Source Review authorizations listed in the table below are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Title 30 TAC Chapter 116 Permits, Special Permits, and Other Authorizations (Other Than Permits By Rule, PSD Permits, or NA Permits) for the Application Area.	
Authorization No.: 1105	Issuance Date: 12/19/2018
Authorization No.: 84724	Issuance Date: 08/19/2013
Permits By Rule (30 TAC Chapter 106) for the Application Area	
Number: 106.122	Version No./Date: 09/04/2000
Number: 106.261	Version No./Date: 12/24/1998
Number: 106.261	Version No./Date: 09/04/2000
Number: 106.261	Version No./Date: 11/01/2003
Number: 106.262	Version No./Date: 09/04/2000
Number: 106.262	Version No./Date: 11/01/2003
Number: 106.263	Version No./Date: 11/01/2001
Number: 106.472	Version No./Date: 09/04/2000
Number: 106.475	Version No./Date: 09/04/2000
Number: 106.476	Version No./Date: 09/04/2000
Number: 106.478	Version No./Date: 09/04/2000
Number: 106.492	Version No./Date: 09/04/2000
Number: 7	Version No./Date: 06/07/1996
Number: 51	Version No./Date: 06/07/1996
Number: 80	Version No./Date: 06/07/1996
Number: 82	Version No./Date: 06/07/1996

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
OX004D12	DISTILLATION COLUMN 13D-12	1105
OX004D22	DISTILLATION COLUMN 13D-22	1105
OX004D57	DISTILLATION COLUMN 14D-57	1105
OX004D58	DISTILLATION COLUMN 14D-58	1105
OX004R1A	REACTOR 14R-1A	1105
OX004R1B	REACTOR 14R-1B	1105
OX004R1C	REACTOR 14R-1C	1105
OX004R1D	REACTOR 14R-1D	1105
OX004R1E	REACTOR 14R-1E	1105
OX004T279	TANK 13TK-279	1105
OX004T290	TANK 14TK-290	1105
OX004T304	TANK 14TK-304	1105
OX005FL1	OXO 30” FLARE	84724, 106.261/11/01/2003, 106.262/11/01/2003, 106.492/09/04/2000
OX005FL2	FLARE (POX)	84724, 80/06/07/1996
OX005WW1	OXO 30” FLARE SEAL POT WASTEWATER	106.472/09/04/2000
OX005WW2	POX FLARE SEAL POT WASTEWATER	51/06/07/1996
OX022T113	STORAGE TANK 40TK-113	1105, 106.261/09/04/2000, 106.261/11/01/2003, 106.261/12/24/1998, 106.262/09/04/2000, 106.262/11/01/2003
OX026T148	STORAGE TANK 43TK-148	1105
OX026T153	STORAGE TANK 43TK-153	1105

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
OX026T154	STORAGE TANK 43TK-154	1105
OX026T155	STORAGE TANK 43TK-155	1105
OX026T162	STORAGE TANK 43TK-162	1105
OX026T163	STORAGE TANK 43TK-163	1105
OX026T164	STORAGE TANK 43TK-164	1105
OX026T165	STORAGE TANK 43TK-165	1105
OX026T194	STORAGE TANK 43TK-194	1105
OX026T302	STORAGE TANK 43TK-302	1105
OX026T303	STORAGE TANK 43TK-303	1105
OX026T32	STORAGE TANK 43TK-32	1105
OX026T33	STORAGE TANK 43TK-33	1105
OX026T35	STORAGE TANK 43TK-35	1105
OX027FL1	FLARE (BLDG. 43)	1105, 84724
OX027T166	STORAGE TANK 43TK-166	106.475/09/04/2000
OX027T167	STORAGE TANK 43TK-167	1105
OX027T414	STORAGE TANK 43TK-414	1105
OX027T415	STORAGE TANK 43TK-415	1105
OX027T416	STORAGE TANK 43TK-416	1105, 106.475/09/04/2000
OX027T417	STORAGE TANK 43TK-417	1105, 106.475/09/04/2000
OX050T146	STORAGE TANK 43TK-146	1105
OX050T147	STORAGE TANK 43TK-147	1105

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
OX050T400	STORAGE TANK 43TK-400	1105
OX050T412	STORAGE TANK 43TK-412	1105
OX050T421	STORAGE TANK 43TK-421	106.261/09/04/2000, 106.261/11/01/2003, 106.262/09/04/2000, 106.262/11/01/2003, 106.478/09/04/2000
OX053D10	DISTILLATION COLUMN 13D-10	1105
OX053D11	DISTILLATION COLUMN 13D-11	1105
OX053D11S	DISTILLATION COLUMN 12D-11	1105
OX053D12S	DISTILLATION COLUMN 12D-12	1105
OX053D13A	DISTILLATION COLUMN 13D-13A	1105
OX053D13	DISTILLATION COLUMN 12D-13	1105
OX053D15A	DISTILLATION COLUMN 13D-15	1105
OX053D16	DISTILLATION COLUMN 12D-16	1105
OX053D17	DISTILLATION COLUMN 13D-17	1105
OX053D17S	DISTILLATION COLUMN 12D-17	1105
OX053D18	DISTILLATION COLUMN 13D-18	1105
OX053D19	DISTILLATION COLUMN 13D-19	1105
OX053D20	DISTILLATION COLUMN 13D-20	1105
OX053D21	DISTILLATION COLUMN 13D-21	1105
OX053D2	DISTILLATION COLUMN 13D-2	1105
OX053D30	DISTILLATION COLUMN 13D-30	1105

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
OX053D31	DISTILLATION COLUMN 13D-31	1105
OX053D35	DISTILLATION COLUMN 13D-35R	1105
OX053D3A	DISTILLATION COLUMN 12D-3	1105
OX053D4R	DISTILLATION COLUMN 13D-4R SOUTH	1105
OX053D5A	DISTILLATION COLUMN 12D-5A	1105
OX053D7A	DISTILLATION COLUMN 12D-7A	1105
OX053D8	DISTILLATION COLUMN 13D-8	1105
OX053D9	DISTILLATION COLUMN 13D-9	1105
OX053FG1	OXO ALDEHYDE PROCESS EQUIPMENT LEAKS	1105, 106.261/09/04/2000, 106.261/11/01/2003, 106.262/09/04/2000, 106.262/11/01/2003
OX053FG7	POX PROCESS EQUIPMENT LEAKS	1105, 82/06/07/1996
OX053H1	POX STARTUP HEATER	7/06/07/1996
OX053R600	REACTOR 12R-600	82/06/07/1996
OX053T10	PROCESS TANK 13TK-10	1105
OX053T245	PROCESS TANK 13TK-245	1105
OX053T28	PROCESS TANK 13TK-28	1105
OX053T304	PROCESS TANK 14TK-304	1105
OX053T313	STORAGE TANK 12TK-313	106.475/09/04/2000
OX053T322	PROCESS TANK 12TK-322	1105, 106.475/09/04/2000
OX053T501	STORAGE TANK 11-2TK-501	1105, 106.476/09/04/2000
OX053T502	PROCESS TANK 11-2TK-502	1105, 106.475/09/04/2000

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
OX053T503	PROCESS TANK 11-2TK-503	1105
OX053T504	PROCESS TANK 11-2TK-504	1105
OX053T505	STORAGE TANK 11-2TK-505	1105, 106.475/09/04/2000
OX053T509	PROCESS TANK 11-2TK-509	1105, 106.261/11/01/2003, 106.262/11/01/2003, 106.475/09/04/2000
OX053T605	PROCESS TANK 12D-605	106.472/09/04/2000
OX053T71	PROCESS TANK 13TK-71	1105
OX053WW1	COLUMN 12D-16 WASTEWATER	106.472/09/04/2000
OX053WW4	DESIGN STEAM STRIPPER 13D-20 WASTEWATER	1105
OX053WW7	POX UNIT WASTEWATER	51/06/07/1996
PROD20DSS	HON WASTEWATER TREATMENT PROCESS	1105
PROOXOALD	OXO ALDEHYDES PROCESS	1105
PROPOX	PARTIAL OXIDATION SYNTHESIS GAS PROCESS	82/06/07/1996
SD022T109	STORAGE TANK 40TK-109	1105
SD022T114	STORAGE TANK 40TK-114	1105
SD023T135	STORAGE TANK 40TK-135	1105
SD100T33	STORAGE TANK 62TK-33	1105
SD100T34	STORAGE TANK 62TK-34	1105

Appendix A

Acronym List

The following abbreviations or acronyms may be used in this permit:

ACFM ..... actual cubic feet per minute
AMOC ..... alternate means of control
ARP ..... Acid Rain Program
ASTM ..... American Society of Testing and Materials
B/PA ..... Beaumont/Port Arthur (nonattainment area)
CAM ..... Compliance Assurance Monitoring
CD ..... control device
CEMS ..... continuous emissions monitoring system
CFR ..... Code of Federal Regulations
COMS ..... continuous opacity monitoring system
CVS ..... closed vent system
D/FW ..... Dallas/Fort Worth (nonattainment area)
EP ..... emission point
EPA ..... U.S. Environmental Protection Agency
EU ..... emission unit
FCAA Amendments ..... Federal Clean Air Act Amendments
FOP ..... federal operating permit
gr/100 scf ..... grains per 100 standard cubic feet
HAP ..... hazardous air pollutant
H/G/B ..... Houston/Galveston/Brazoria (nonattainment area)
H_2S ..... hydrogen sulfide
ID No. ..... identification number
lb/hr ..... pound(s) per hour
MACT ..... Maximum Achievable Control Technology (40 CFR Part 63)
MMBtu/hr ..... Million British thermal units per hour
NA ..... nonattainment
N/A ..... not applicable
NADB ..... National Allowance Data Base
NESHAP ..... National Emission Standards for Hazardous Air Pollutants (40 CFR Part 61)
NO_x ..... nitrogen oxides
NSPS ..... New Source Performance Standard (40 CFR Part 60)
NSR ..... New Source Review
ORIS ..... Office of Regulatory Information Systems
Pb ..... lead
PBR ..... Permit By Rule
PEMS ..... predictive emissions monitoring system
PM ..... particulate matter
ppmv ..... parts per million by volume
PRO ..... process unit
PSD ..... prevention of significant deterioration
psia ..... pounds per square inch absolute
SIP ..... state implementation plan
SO_2 ..... sulfur dioxide
TCEQ ..... Texas Commission on Environmental Quality
TSP ..... total suspended particulate
TVP ..... true vapor pressure
U.S.C. ..... United States Code
VOC ..... volatile organic compound